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COMMONWEALTH OF MASSACHUSETTS

MUNICIPAL REGISTER

of the City of

SPRINGFIELD

1919



CONTAINING :

**City Officers and Committees, Mayor's Address,
Reports of the Various Officers and Committees,
also the Receipts and Expenditures for
the Fiscal Year ending November 30, 1918**

Commonwealth of Massachusetts

MUNICIPAL REGISTER

OF THE

CITY OF SPRINGFIELD

FOR

—1919—

CONTAINING

CITY OFFICERS AND COMMITTEES, MAYOR'S ADDRESS, REPORTS OF
THE VARIOUS OFFICERS AND COMMITTEES; ALSO, THE
RECEIPTS AND EXPENDITURES FOR
THE FISCAL YEAR ENDING
NOVEMBER 30, 1918.

PRESS OF
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CITY OFFICERS
FOR 1919

CITY OFFICERS FOR 1919

Mayor

ARTHUR A. ADAMS

Aldermen

HENRY H. CASWELL, President

- Ward 1: JOHN J. LESTER
Ward 2: EDWIN F. LEONARD
Ward 3: GEORGE EDWARD MANSFIELD, JR.
Ward 4: CHARLES A. ALLBE
Ward 5: SETH H. BARLOW
Ward 6: CLIFFORD DEW. CASTLE
Ward 7: HENRY H. CASWELL
Ward 8: ARTHUR ALFRED BETH
ELIJAH A. NEWELL, Clerk

Common Councilmen

CHRISTOPHER G. SIMPSON, President

- Ward 1: CHARLES McMORROW, EMIL J. ERARD
Ward 2: WILLIAM H. GRADY, JOHN R. DOYLE, EUGENE J. SWEENEY
Ward 3: AMBROSE H. REYNOLDS, MAX J. BAKER
Ward 4: ARCHER R. SIMPSON, RICHARD C. GAIGE
Ward 5: ELI F. MILLETT, CHRISTOPHER G. SIMPSON
Ward 6: GEORGE L. FENN, FRANK M. KINNEY
Ward 7: ARTHUR G. TAYLOR, FREDERICK KATTLER
Ward 8: VICTOR BENGLE, THOMAS H. BENTON, VERNON D. ODETTE
GEORGE J. CLARK Clerk

STANDING COMMITTEES OF THE CITY COUNCIL

COMMITTEES OF THE BOARD OF ALDERMEN

- Enrollment*—Aldermen Mansfield, Jr., Leonard and Caswell.
Elections and Returns—Aldermen Allbe, Lester and Castle.
Ordinances—Aldermen Caswell, Beth and Mansfield, Jr.
Poles and Wires—Aldermen Lester, Caswell and Allbe.
Itinerant Venders' Licenses—The Mayor and Aldermen Allbe and Beth.
State and Military Aid—The Mayor and Aldermen Castle and Mansfield, Jr.
Rules of the Road—Aldermen Barlow, Leonard and Castle.

COMMITTEES OF THE COMMON COUNCIL

- Ordinances*—Councilmen Baker, Millett and Reynolds.
Enrollment—Councilmen Gaige, Bengle and Odette.
Elections and Returns—Councilmen Benton, Kinney and Sweeney.

JOINT STANDING COMMITTEES

Finance—The Mayor, Alderman Castle, the President of the Common Council and Councilmen Taylor and Doyle.

City Property—Aldermen Leonard and Beth, Councilmen Fenn, Archer R. Simpson and Grady.

Fire Department—Aldermen Allbe and Barlow, Councilmen Gaige, Millett and Baker.

Pauper Department—Aldermen Barlow and Mansfield, Jr., Councilmen Odette, Benton and McMorrow.

Printing—The Mayor, President of the Common Council and Councilman Kattler.

Board on Claims—The Mayor, Alderman Barlow and the President of the Common Council.

Supervisors of the Department of Streets and Engineering—The Mayor, Alderman Lester and Councilman Erard.

Firearms—Aldermen Barlow and Leonard, Councilmen Baker, Odette and Sweeney.

Revision of Ordinances—Aldermen Allbe and Barlow, Councilmen Archer R. Simpson, Kattler and Bengle.

Mayor's Messages—Aldermen Caswell and Lester, Councilmen Bengle, Kinney and Reynolds.

City Realty—Aldermen Beth and Mansfield, Councilmen Benton, Gaige and McMorrow.

Signs—Alderman Mansfield, Jr., Councilmen Fenn and Millett.

Municipal Market—Alderman John J. Lester, Councilmen Kinney and Reynolds.

CITY CLERK—Elijah A. Newell.

ASSISTANT CITY CLERK—Clifford F. Smith.

CLERICAL ASSISTANTS—Cora B. Haskell, Carrie M. Riley, Ida M. Sword, Agnes P. Sheehan, Alice G. Weymouth, Doris Lampson.

CITY TREASURER—Eliphalet T. Tift.

TREASURER'S DEPUTY—John P. Bishop.

CLERICAL ASSISTANTS—George W. Rice, Jr., Margaret E. McCaughan, Gertrude F. Little, Agnes A. Mansfield.

CITY AUDITOR—William G. McIntyre.

DEPUTY CITY AUDITOR—Clifford E. Cook.

CLERICAL ASSISTANTS—Alice E. Hathaway, Isabelle Hicks, Gertrude Rowland, Helen V. Chase, May Taylor, Mary A. Otto.

CITY COLLECTOR—Charles A. Frazer.

CHIEF CLERK—Ralph L. Munn.

CLERICAL ASSISTANTS—Flora S. Allbe, Hazel M. Berard, Frederic W. Day, Leone C. Johnson, Helen E. Mansfield, Madelyn G. Moore, Helen L. Mullen, May G. Tyning, Marion Wheelock, Elfreda F. Whiting.

DEPUTY COLLECTORS—Henry E. Fournier, Ralph S. Bath.

ASSESSORS—Albert C. Lane, George B. Smith, William E. Sanderson.

ASSISTANT ASSESSORS—Charles E. Murray, John W. Holton, Arthur

S. Burt, William J. Murphy, Bernal H. Adams, James J. Griffin, John W. Culver, Albert P. Eaton, John A. Fitzgerald, Samuel F. Brown and Thomas J. Moriarty, Ralph S. Bath.

CLERICAL ASSISTANTS—Mary R. Smith, Mabel C. Bemis, A. Evelyn Jewell, Minnie L. Barrett, Buena V. Barrett, M. Ethel Matthews.

OVERSEERS OF THE POOR—The Mayor, Dr. William J. Leonard, J. Stuart Kirkham, Henry P. Norris, William R. Thacker.

AGENT—Edward I. White.

ASSISTANT AGENT—Arthur A. Call.

CLERK AND BOOKKEEPER—Jennie S. Lombard.

CLERICAL ASSISTANTS—Mary M. Doubleday, Lillian A. Wisenburn.

WELFARE NURSE—Mary D. Otis.

SUPERINTENDENT OF ALMSHOUSE—Lyman W. Sexton.

CITY PHYSICIAN—Dr. William J. Leonard.

CITY SOLICITOR—Edward T. Broadhurst.

ASSISTANT CITY SOLICITOR—Harold P. Small.

CITY PROSECUTING ATTORNEY—Josiah Dearborn.

MAYOR'S CLERK—Elizabeth H. Clark.

SUPERINTENDENT OF PUBLIC BUILDINGS—Hiram L. Dorman.

MESSANGER—James H. Lay.

SUPERINTENDENT OF THE DEPARTMENT OF STREETS AND ENGINEERING—Robert P. Marsh.

DEPUTY SUPERINTENDENT OF STREETS—Arthur H. Woodward.

DEPUTY SUPERINTENDENT OF SEWERS—Howard O. Buck.

DEPUTY SUPERINTENDENT OF STREET LIGHTING—William E. Hodge.

DEPUTY CITY ENGINEER—Charles M. Slocum.

CHIEF CLERK AND BOOKKEEPER—Charles G. Neidel.

BOARD OF HEALTH—Philip V. Erard, Chairman, Dr. George L. Schadt, Dr. Edgar H. Guild, Health Physician.

AGENT AND CLERK OF THE BOARD OF HEALTH—William L. Young.

CHIEF CLERK—Grace E. Warren.

OFFICE CLERKS—Mary E. MacDonnell, Anna C. O'Connell.

SANITARY INSPECTORS—Jacob R. Sackett, Chief, Wm. J. Hassett, Henry Wright, Jr., Alger P. Blaine, Wm. F. Boyle and Daniel J. Mahoney.

SMOKE INSPECTOR—Dustin A. Tice.

SUPERINTENDENT OF SCHOOLS—James H. Van Sickle.

SUPERINTENDENT'S CLERK—Fred L. Ward.

SCHOOL COMMITTEE—The Mayor; at large, Newton M. Hall; Ward One, Wayland V. James; Ward Two, Henry L. Hirsch; Ward Three, Ralph B. Ober; Ward Four, Edward M. Porter; Ward Five, Florence Clark; Ward Six, Franklin A. Latimer; Ward Seven, George H. Foss; Ward Eight, George H. Howard.

ATTENDANCE OFFICER—John A. Parker.

ASSISTANT ATTENDANCE OFFICERS—Harry A. Killmer, Leonard W. Knight and Harry E. Handy.

SEALER OF WEIGHTS AND MEASURES—William Foster.

DEPUTY SEALERS OF WEIGHTS AND MEASURES—Ralph H. O'Malley, Charles B. Kingsbury.

INSPECTOR OF MILK—Stephen C. Downs.

ASSISTANT INSPECTOR OF MILK—Fred L. Robertson.

INSPECTOR OF VINEGAR—Stephen C. Downs.

INSPECTOR OF ANIMALS—Harry Lukes.

INSPECTOR OF PETROLEUM—George H. Powers.

SUPERVISOR OF SOLDIERS' AND SAILORS' GRAVES—John C. Condon.

BUILDING COMMISSIONER—Fred W. Lumis.

BUILDING INSPECTORS—Daniel W. Campbell, Leigh Ferry Morgan.

PLUMBING INSPECTOR—Frank W. Tower.

ASSISTANT PLUMBING INSPECTOR—Ernest G. Bates.

INSPECTOR OF GAS FITTING—Fred A. Bicknell.

INSPECTOR OF WIRES WITHIN BUILDINGS—Allen W. Hopkins.

ASSISTANT INSPECTORS OF WIRES WITHIN BUILDINGS—John F. Shea, Wilbur Chauncey Field.

INSPECTOR OF ELEVATORS—Wm. F. Schrader.

CLERK OF BUILDING DEPARTMENT—Alice Ferguson.

BOARD OF APPEAL—George C. Gardner, Thomas J. O'Brien, Daniel W. Mellen.

FISH WARDEN—James P. Hatch.

WATER COMMISSIONERS—The Mayor, Edwin A. Blodgett, Charles H. Mulligan.

CHIEF ENGINEER OF WATER WORKS—Elbert E. Lochridge.

SUPERINTENDENT OF WATER WORKS—A. E. Martin.

WATER REGISTRAR—Alfred R. Hathaway.

BOARD OF PUBLIC WORKS—Claudius C. Margerum, Frank G. Tobey, Napoleon E. Russell.

BOARD OF REGISTRARS OF VOTERS—John W. Nolan, Stephen F. Bible, Warren P. Underwood, E. A. Newell, Clerk.

ASSISTANT REGISTRARS OF VOTERS—Edwin R. Spaulding, Michael J. Madden.

CLERICAL ASSISTANTS—Edith M. Ware, Julia A. O'Brien.

FIRE COMMISSIONERS—Wm. W. Tapley, Charles B. Hitchcock, Edwards O. Davis, Thomas J. Sheridan, Charles A. Allbe.

ENGINEERS OF THE FIRE DEPARTMENT—Chief, William H. Daggett; Deputy Chief, Everett A. Kimball; District Chiefs, Burton Steere, John R. Graves; Superintendent of Fire Alarm, Herbert H. Berry.

PARK COMMISSIONERS—Stanhope E. Blunt, Nathan D. Bill, Theodor R. Geisel, Charles Adams, Dwight R. Winter.

PARK SUPERINTENDENT—Charles E. Ladd.

COMMISSIONERS OF SINKING FUNDS—Robert O. Morris, A. B. Wallace, A. Willard Damon.

LICENSE COMMISSIONERS—William M. Stevenson, Hugh J. Donnelly, George G. Tait.

POLICE DEPARTMENT.

POLICE COMMISSIONERS—Charles F. Spellman, *Chairman*, Daniel J. Brown, M.D., Joseph G. Roy, Silvio Martinelli.

CHIEF OF POLICE—William J. Quilty.

DEPUTY CHIEF OF POLICE—Henry M. Perkins.

CAPTAIN OF DETECTIVES—Frank W. Quilty.

CAPTAINS—Martin P. Costello, Charles A. Wade, Edgar A. Littlefield.

DETECTIVE LIEUTENANTS—James T. Raiche, James M. Daly, George H. Norris, Daniel F. McCarthy, John McNeil, Ernest P. Marble, Joseph D. Powers, Patrick J. Fenton.

LIEUTENANTS—Joseph A. Murphy, Michael J. O'Brien, John St. Ledger.

SERGEANTS—Frederick L. Thayer, Michael Kennedy, Daniel J. Twohig, John L. Maloney, Harley H. Blodgett, John A. Swift, Patrick J. O'Connor, Michael F. Egan, Edwin C. Holbrook, John F. Donoghue, Frederick J. Runnells, Edward Carey, John H. Dunleavy.

MATRONS—Mrs. Maria E. Holley, Mrs. Delia E. Flanagan.

DEPARTMENT CLERK—Anna A. Kelliher.

POLICE OFFICERS.

NIGHT AND DAY WATCHMEN.

James W. Murtagh,	John P. Sullivan,	Frederick J. Sevigne,
Michael C. Quinlivan,	William J. Hurley,	Alfred H. Penfield,
Charles H. O'Connell,	Llewellyn D. Carey,	John A. Hamberg,
Ward E. Maranville,	William F. Goldrick,	Myron H. Bullard,
Albert H. Shaw,	Michael F. Sullivan,	John A. Driscoll,
James J. Donovan,	Horace G. Clark,	Charles Martens,
Edward P. Tilton,	Aime L. J. Letendre,	Perley J. Hewey,
Patrick Keefe,	Frederick P. Smith,	William J. Hogan,
Albert F. Ward,	George F. Russell,	John F. Carlton,
Simon J. Connery,	James A. Dowling,	James F. Mullins,
Ovila L. Huot,	James H. O'Brien,	George E. Lynch,
William J. Grady,	Durham N. Pepin,	Michael J. Flannery,
Timothy J. Hallahan,	Thomas B. Drinan,	Howard F. Tourtellotte,
Charles W. Geary,	Clarence E. Bradway,	John G. Flynn,
John F. Bacon,	James J. Collins,	Edward J. Slattery,
James F. Dagnan,	Bernard J. F. Bergren,	Michael J. Curley,
Alexander Gray,	Peter H. Walsh,	Arthur H. Carrigg,
Charles H. Hatfield,	William S. Bates,	Jeremiah B. O'Leary,
Patrick Lynch,	John LaFond,	Charles Hanlon,

John Hayes,
 Patrick J. Keane,
 Thomas F. Connery,
 Louis H. Pilon,
 Eugene F. Kelleher,
 James P. Gray,
 Thomas L. Kavanaugh,
 Mathew P. Ryan,
 William F. Lonergan,
 Patrick B. Sullivan,
 James J. Moylan,
 Thomas A. Kennefick,
 John H. St. Ledger,
 Matthew J. Meade,
 William G. Dale,
 John B. Carrigg,
 Peter J. Mara,
 Frederick Cullen,
 Thomas C. Fleming,
 John C. Driscoll,
 Cornelius P. Brosnan,
 Charles C. Learned,
 Michael J. O'Brien,
 Lovell S. Spaulding,
 John J. Maloney,
 Arthur E. Clifford,
 Edward D. Pepin,
 Fred A. Champous,
 Ralph J. Carleton,
 John J. Donlin,

Ernest C. LaFleur,
 James W. Pease,
 Edward J. Costello,
 Owen C. V. Sloan,
 John H. McDonald,
 George N. Riley,
 John F. Hurley,
 Harry R. Button,
 Lyman B. Bullock,
 Ward C. Maranville,
 John J. Crowley,
 John P. Driscoll,
 Arthur H. Parker,
 Thomas Moriarty,
 James B. Kemple,
 Thomas F. Murphy,
 William F. Edmonds,
 George F. Henry, Jr.,
 James G. Taylor,
 Cornelius F. Dowd,
 Daniel J. Long,
 Albert J. Tessier,
 Raymond F. Connelly,
 Thomas F. French,
 Frank J. McNeill,
 Peter McLelland,
 John J. Long,
 John F. Hedden,
 Philip E. Burke,

Neil Bryson,
 Mitchel Frappier,
 Montague R. Marsh,
 Ellsworth C. Myers,
 Edward F. Cullinan,
 Harry O. Webster,
 Charles D. Feustel,
 Ernest Raymond,
 Charles J. Murphy,
 John P. Cleary,
 John P. Fleming,
 Louis C. Miller,
 James J. Scanlon,
 Charles G. O'Malley,
 Lawrence V. Malone,
 Patrick Lovett,
 Michael F. Clancy,
 Edward J. Sevigne,
 Charles M. Feeney,
 John Lamondia,
 Rolla C. King,
 Edward L. Keating,
 William J. Wall,
 Jeremiah A. Sullivan,
 Paul H. Rice,
 Patrick M. Hurley,
 Patrick H. Meleady,
 Edgar P. Tanguay,
 Wm. H. Connor.

POLICEWOMEN.

Mary F. Lathrop,

H. Elizabeth O'Connor.

RESERVEMEN.

Wm. E. McCarthy,
 George W. Bicknell,
 Lawrence F. Hayden,
 Harry D. Foley,
 John J. Maher,

Frank W. Betteres,
 Frederick J. Kenner,
 John W. Harrington,
 Thomas H. Tuohey,
 Alexander S. A. Ross,

Percy F. Laming,
 Victor M. Tetrault,
 Hugh J. Daley,
 Charles W. Stetson.

SPECIAL OFFICERS.

H. H. Alcock,
 Maurice A. Alexander,
 Chester W. Allen,
 Henry P. Anderton,
 William H. Bagg,
 Theodore C. Baggs,
 Alfred Chester Bailey,
 Fred L. Baker,
 Nicholas J. Baker,

W. F. Bardwell,
 George W. Barnes,
 John H. Barnes,
 Joseph E. Barnes,
 James J. Baron,
 John J. Barry,
 Joseph E. Bates,
 Hiram A. Beach,
 Marshall A. Belmer,

Thomas H. Benton,
 Fred J. Bergen,
 Barney H. Bergman,
 Herbert H. Berry,
 Chas. R. Berryman,
 Chas. J. Best,
 Alger P. Blaine,
 Frank A. Blanchard,
 Eddy Bogan,

Bernard U. Boyce,	McClellan Dow,	Chas. Ireland,
Wm. F. Boyle,	Patrick L. Dowd,	James H. Jones,
James J. Breman,	Dennis J. Driscoll,	Joseph H. Julian,
Geo. D. Briggs, Jr.,	Frederick A. DuBois,	A. E. Keith,
Fred H. Brockney,	Chas. H. Dustin,	E. J. Kelley,
T. H. Brodrick,	Walter R. Eastman,	Wm. W. Kimmel,
Geo. B. Brooks,	Ralph W. Ellis, Jr.,	Joseph Konopka,
John W. Brooks,	John W. Falvey,	Chas. M. Ladd,
Archibald Brown,	Wm. P. Faulkner,	Harry E. Lakin,
Harold E. Bryant,	L. J. Fennery,	Louis E. Larson,
Clinton R. Bruce,	Michael A. Feustel,	John J. Lee,
David H. Bufton,	Warren S. Fielding,	Henry C. Lombra,
Wm. Bunnell,	Clarence M. Fisher,	Antonio Lopez,
Howard N. Butler,	Joseph Flavell,	Romeo Luzon,
Weston G. Carey,	John Fleming,	Michael D. Lynch,
Geo. W. Carpenter,	Wm. E. Flynn,	James H. Lyons,
Thos. H. Cartmill,	Howard G. Fox,	Frank W. McGinnis,
Thos. W. Cashman,	R. C. Franklin,	James M. McKee,
Carl Wm. Castor,	Chas. Fredericks,	Daniel J. Mahoney,
John Cawley,	Thos. Clement Galvin,	Robert P. Marsh,
Nelson V. Chaffee,	Albert W. Gates,	John Henry Martin,
David Chenade,	W. A. Gaunt,	Adolph D. Massey,
Joseph Chas. Clark,	Capt. C. E. Gesner,	Pasquale Mastroianni,
Albert P. Cross,	C. H. Gibbs,	Everett C. Maynard,
Patrick Courtney,	Harry Edgar Gibbs,	Andrew J. Melaney,
Herbert C. Cook,	Thos. S. Gota,	A. S. Miller,
Wm. P. Connors,	E. F. Goodwin,	Samuel Mirkin,
Thos. Connors,	J. J. Gould,	John Joseph Molinari,
John J. Connor,	D. H. Guay,	Chas. E. Moody,
John Connolly,	Arthur S. Hall,	Roscoe R. Moody,
Geo. E. P. Collins,	Clarence R. Hall,	John Morgan,
Geo. H. Colgrave,	Harold Edmund G. Hall,	Chas. F. Morse,
Francis X. Clarke,	Joseph Halpy,	Edward S. Morton,
Thos. M. Corliiss,	James H. Halstead,	James Mourchis,
Wm. O. Cornell,	Wm. J. Hannifin,	Geo. A. Mulany,
Michael J. Crowley,	Ernest Harrington,	John H. Murphy,
Robert Crowe,	Wm. Allen Harris, Jr.,	George Muse,
James J. Crowe,	Wm. J. Hassett,	John H. Myers,
Mitchell Dahdah,	Wm. A. Hathaway,	W. J. McCarthy,
C. L. Davis,	John H. Haverty,	William McDonald,
Michael J. Davis,	Martin R. Healy,	William McDougall,
Antonio Dantoni,	John E. Hickey,	Fred S. Neddo,
Ludovico DeCaro,	M. J. Harrington,	John H. Nelson,
Luigi DeNucci,	James P. Hillard, M.D.,	Henry B. Newman,
Eli Deyo,	J. B. Hills,	Paul J. O'Connor,
Arthur J. Dion,	D. A. Hogan, Jr.,	Robert W. O'Connor,
John H. Donnelly,	James Theodore Holmes,	John J. O'Donnell,
Matthew J. Donovan,	Henry J. Howard,	Wm. Henry O'Neil,
Albert N. Dorion,	John Hurley,	Michael H. O'Sullivan,

Francesco Pagliaro,	Chas. Saban,	Barney Theriaque,
Antonio Perry,	Walter W. Samples,	Eugene L. Thornton,
Royal I. Pike,	Geo. C. Sampson,	Dustin A. Tice,
Benjamin F. Parker,	Arthur Clark Sargeant,	John L. Tongue,
A. N. Porter,	J. S. Sawyer,	H. H. Trauschke,
Chas. B. Porter,	Justus A. Schelb,	Wm. Trombley,
Herman Pouliot,	Thos. Parnell Scollins,	Geo. L. Tufts,
James F. Powers,	Chas. A. Sealander,	W. H. Tyler,
Alex. Pringle,	John A. Searle,	Harry Lee Waite,
Edw. G. Quinlivan,	Otto Seiger, Jr.,	Ralph H. Walsh,
Herbert Burns Quinn,	Arthur H. Shaw,	Richard Warne,
Sumner W. Rainger,	J. J. Shea,	Lewis L. Washburn,
Melvin H. Ransom,	John Sheehan,	Allen L. Watts,
Napoleon Richards,	James Sinclair,	George W. Wells,
Cornelius Riley,	James H. Sinclair,	Archie N. Wetherbee,
Fred E. Ripley,	Albert Smith,	Andrew J. Whelan,
Wm. H. Ripley,	Burton T. Sornborger,	John E. White,
J. J. Risley,	Emidio T. Spagna,	Herbert H. Whiting,
Fred W. Robbins,	Clifford J. Staples,	Lyman C. Whitman,
John Rochford,	Col. Geo. H. Stibbs,	Max Wiener,
Abraham M. Rohrllich,	Cornelius C. Sullivan,	Thos. L. Williams,
Herbert C. Root,	Timothy F. Sullivan,	Geo. H. Wood,
Matthew Joseph Rose,	Forrest F. Sweatland,	Henry Wright, Jr.,
D. Roy,	J. W. Tatum,	A. A. Young.
	Geo. Telmosse,	

MAYOR'S ADDRESS.

MAYOR'S INAUGURAL ADDRESS

Gentlemen of the City Council:

In accordance with the provisions of the City Charter we have met to-day to assume the responsibilities conferred upon us by the people. That we are grateful to them for the confidence they have placed in us is needless to say, and to be worthy of that confidence we of course must give our best service and disregard all personal considerations.

The great war with its tremendous suffering, its loss of life, and financial expenditure has come to an end. Peace is apparently at hand and with it great problems of reconstruction and readjustment. These problems are so far reaching that they may even affect our own actions, so that it may be necessary or proper that we should in some degree take part in the constructive work of repairing the ravages of war.

While the demand for help in filling war orders has taxed the labor market to its limit, the cessation of hostilities, with the consequent cancellation of orders, has released from their employment many men who must now seek new employment.

The returning soldiers moreover will become competitors in the search for employment and all reasonable efforts should be made to show our appreciation of their gallant services and to assist them in re-establishing themselves in civil life.

The government has suggested that extensive construction work be undertaken in order to provide employment for soldiers and workmen and it would seem opportune to engage in such work, the need for which is very apparent, as the restricted labor and material conditions have permitted little work of this kind during the past few years.

While we may be disposed to engage in this work it is necessary to look briefly into our financial condition, for the amount of construction work we can undertake must be governed entirely by the funds available for such expenditure.

FINANCES.

According to the Board of Assessors, the value of real estate, resident bank shares, and personal estate (exclusive of intangibles),

on which the 1918 tax was levied for current expenses aggregated \$201,786,769, which is \$5,456,149 in excess of the value in 1917.

The tax on intangible personal property is no longer collected by the city, but by state officials, and is apportioned among the cities and towns.

The net bonded debt of our city on November 30, 1918, was \$7,956,861 after deducting Sinking Fund investments, which debt is about \$300,000 greater than it was one year ago. To this total bonded debt, however, must probably be added soon the further sum of \$700,000, which is the unissued balance of an issue of bonds amounting to \$1,500,000, authorized to be borrowed to widen and extend Dwight street.

**TABLE OF OUTSTANDING BONDED DEBT AND
PURPOSES FOR WHICH IT WAS CREATED.**

Water Works (exempt),.....	\$2,029,000
Schoolhouses:—	
Technical High,.....	\$450,000
High School of Commerce, ..	789,000
Other schools,.....	1,784,500
	\$3,023,500
Dwight and Water streets railroad under- passes (exempt),.....	500,000
Dwight-Willow and Hillman street exten- sions,.....	49,000
Dwight street widening and extension (ex- empt),.....	800,000
Emery street storehouse (addition),.....	22,800
Fire department buildings,.....	92,610
Fire and Police headquarters,.....	204,000
Fulton street widening,.....	320,000
Health department hospital,.....	11,700
Locust street extension,.....	6,000
Laundry and heating plant, almshouse, ...	19,790
Municipal heating plant,.....	50,700
Municipal Group buildings (exempt),.....	1,407,000
Municipal Group, land,.....	76,000
North street extension,.....	20,000
Parks and buildings,.....	148,400
Sewers,.....	227,000
Wayfarers' Lodge,.....	19,000
Debt exclusive of water debt,.....	6,997,500
Total debt,.....	\$9,026,500
Less Sinking Fund investments, at par,.....	1,069,639
Net bonded debt,.....	
	\$7,956,861

Payments amounting to approximately \$462,000 on account of bonded indebtedness, in addition to interest, must be made during the year. This includes about \$34,000 for the sinking fund and \$89,000 for the water debt, which latter will be met out of receipts of the Water Department.

The amount of debt the city can incur within the statutory limit during 1919, based upon the average valuation for the last three years, is \$1,551,059, as shown below.

Amount of debt within statutory limit which the city can incur cannot exceed

2½% of \$197,940,000, the average valuation for the last three years,.....	\$4,948,500
After deducting investments—	
Net bonded indebtedness.....	\$7,956,861
Less—	
Net water debt.....	\$1,852,420
Net debt outside statutory limit, 2,707,000	
	<u>4,559,420</u>
	<u>3,397,441</u>

Amount of debt which city can incur this year within statutory limit,..... \$1,551,059

As will appear later the expenditures by the several departments of the city during the coming year will be generally greater and in some instances very much greater than heretofore, due to increases in wages and higher costs of materials. It will therefore undoubtedly be necessary to borrow by issuing bonds for certain improvements, although we should be prudent in determining the amount to be borrowed and should leave a reserve to meet any unexpected need which may arise.

SCHOOLS.

The department involving the largest expenditure of money and rendering to the public the most important of municipal services is the School Department. It furnishes all the education given to the great majority of our boys and girls, trains many of them for life's vocations, and fits a smaller percentage for college and professional schools. This is surely a most important function.

Competent administration and wisely selected teachers have given our schools an enviable reputation, to maintain which, suitable school facilities must be furnished.

Upon examination it appears that our school growth of slightly more than 5% annually has not been accompanied with necessary new schoolhouse construction. Out of a total of 538 schoolrooms, exclusive of recitation and kindergarten rooms, 43 are improvised rooms which are not proper for the purpose, as they are not advantageous or convenient for instruction. The annual school enrollment indicates that in order to provide for the increase in school population and to eliminate some of the improvised rooms, it will be desirable to construct at least 32 new rooms this year. The School Committee calls attention to four additions for which there is great need to-day, viz.:—

Chestnut Street Junior High,
Homer Street Elementary School,
Forest Park Junior High,
Central High School Gymnasium.

The Homer Street and Forest Park schools are very much overcrowded and I would recommend that additions to these two schools be built and also any others which after investigation may be found necessary, and which the city's financial condition may permit.

While discussing schoolhouse construction it would seem advisable to consider very briefly the character of the buildings. They should be serviceable, adapted to the purpose, and devoid of unnecessary ornamentation. The need for new buildings is so great that we must forego ornate or monumental buildings on account of their higher cost. Carefully prepared specifications embodying types and materials of construction and dimensions of rooms should govern the design of our school buildings. If this is done it seems probable that economies will result.

FIRE DEPARTMENT.

The most important change in this department was the adoption last year of the Two Platoon System in place of the continuous system heretofore prevailing. This change is expected to insure a maximum of protection and better working conditions for the fire fighters.

The increase in the cost of operating the department due to this change will amount to about \$100,000, or nearly 30% more than last year.

But little fire station construction work will be requested by

this department, although four houses will soon need the substitution of concrete for wooden floors.

POLICE DEPARTMENT.

The most pressing need of the Police Department is an addition to the Police building in order that adequate facilities may be provided for the Police Court as well as the Police Department. Increased revenue from rental would probably be realized.

The revision or adoption of a new ordinance relating to hawkers and peddlers on Main street is also needed in order to prevent unnecessary blocking of the street.

CHARITIES.

The prevailing epidemic of influenza has caused a crowded condition at the almshouse and temporarily it has been necessary to open a hospital section in the almshouse proper.

The cost of operating this department has been and will continue to be affected by the high prices for food and fuel.

DEPARTMENT OF STREETS AND ENGINEERING.

The largest undertaking of this department has been the widening, extending, and paving of Dwight street, between State and Lyman streets. This work was done with moneys provided by issuing bonds under a special act of the Legislature and will probably cost about \$1,600,000, when final costs of land takings are known.

Betterments aggregating about \$600,000 have been assessed upon owners of abutting and affected properties.

During the coming year a number of important projects will be presented for your consideration, including the widening of main thoroughfares and opening of new streets.

A program of new paving construction in accord with our financial ability must be undertaken, in connection with which mention may be made of the necessity for street maintenance which is too often neglected, although of great value.

Overcrowded sewers in three sections of the city render imperative the construction of storm water and storm overflow sewers, for which appropriations will have to be made.

DEPARTMENT OF PARKS.

During the past year Forest Park has been enlarged by the addition of nearly 200 acres of land and 70 acres more will probably soon be added, making its total area about 725 acres.

In addition to the usual roadway improvements, it is contemplated to build a causeway in Pecousic Valley which will flood from 35 to 40 acres of swamp land, forming what will be called Porter Lake, in honor of the late Sherman D. Porter, by whose will a sum now amounting to nearly \$12,000 was left to the city of Springfield to be expended by the Park Department, which sum will be applied toward the cost of this improvement.

MUNICIPAL WATER WORKS.

The subject of readjustment of rates charged consumers for water has been studied by officials of the Water Works and it is hoped that during the coming year new rates may be established which will be more equitable both for large and small consumers.

Whether after readjustment of rates the aggregate revenue from the sale of water is increased or decreased must of course depend upon the cost of supplying the product, as this service does not differ from other public or private services in respect to higher operating costs.

HEALTH DEPARTMENT.

The Health Department renews its request that suitable and adequate facilities be provided for tuberculosis and contagious disease patients by the erection of new buildings and remodeling two of its present buildings.

The question has already been extensively studied and will undoubtedly merit your further careful consideration as the protection of the health of our community and the care of our sick are matters of the greatest importance.

MUNICIPAL MARKETS.

In accordance with an act of the Legislature which provides for the establishment of a Market Place, a Municipal Market has been established and also operated during the past year on private property located at the corner of Vernon street and Broadway.

It is estimated that farm products having a sale value of \$105,000 have been disposed of during the year at a net cost to the city of about \$3,500 for land rental and for supervising the operations.

While the advantages of conducting our Municipal Market are not universally conceded it is hoped that during the coming season certain economies may be affected which will make the market more nearly, if not entirely, self-supporting as it should be.

THE PROPOSED CONNECTICUT RIVER BRIDGE.

The Special Bridge Commission appointed by the Supreme Judicial Court to submit plans and specifications for a bridge across the Connecticut River in place of the Toll Bridge, filed a report in June, 1917, describing a plan which was generally unsatisfactory.

At a hearing held in August, 1918, the Bridge Commission joined with the city in requesting that the report be recommitted to them and a further hearing has since been held.

It is understood that any changes in the report originally presented will be filed with the Court at a date sufficiently early to permit the County Commissioners, who will build the bridge, to let contracts for the construction work during the early part of the coming summer season.

The filing of the plans however is conditional upon obtaining the consent of the U. S. Army Board of Engineers and the approval of several commissions as well as upon the passage of an act of Congress permitting the construction of a new bridge.

It will be necessary to be prepared to finance our share of the cost of this work.

There will be great relief when the Toll Bridge can be dispensed with. It has been closed to traffic for some months and probably will not be strengthened sufficiently for temporary use until the middle of next summer.

THE PROPOSED RAILROAD STATION.

The Boston and Albany Railroad Company has prepared plans for building a new station on the northerly side of its railroad tracks, between Main and Dwight streets, and dispensing with the present station on the south side of the tracks. An underpass is contemplated which will connect the new station with Lyman street and which will enable foot passengers to reach and leave trains without crossing

adjacent tracks, thereby obviating the dangerous conditions at the present station.

According to legislative act the Board of Aldermen will be required to approve any change which involves a re-location of the present station. In considering the plans it will be necessary to determine whether suitable provision has been made for the convenience of the public.

CONCLUSION.

Financial statistics and departmental matters are necessarily referred to very briefly in this address, but detailed information may be obtained by consulting the reports of the departments.

These reports should be carefully studied in order that we may become familiar with matters which will be referred to us for consideration.

The value of our services to the city will depend upon the spirit and seriousness with which we meet our responsibilities and we must ever bear in mind that there can be honest differences of opinion among men who are conscientiously serving the city.

May we co-operate and work harmoniously with each other.

ARTHUR A. ADAMS,

Mayor.

January 6, 1919.

REPORT

OF THE

SCHOOL BOARD

OF THE

CITY OF SPRINGFIELD,
MASSACHUSETTS

1918

SCHOOL BOARD FOR 1919

ARTHUR A. ADAMS, MAYOR,
CHAIRMAN, *ex officio*.

AT LARGE.—NEWTON M. HALL, 19 Elliott Street.	TERM EXPIRES. Dec. 31, 1921
WARD 1.—WAYLAND V. JAMES, VICE-CHAIRMAN, 69 Waverly Street. Business Address, 381 Main Street.	Dec. 31, 1921
WARD 2.—HENRY L. HIRSCH, 172 Main Street.	Dec. 31, 1921
WARD 3.—RALPH B. OBER, 76 Maple Street.	Dec. 31, 1919
WARD 4.—EDWARD M. PORTER, 40 High Street. Business Address, Room 503, Third National Bank Building.	Dec. 31, 1919
WARD 5.—FLORENCE CLARK, 107 Dartmouth Street.	Dec. 31, 1919
WARD 6.—FRANKLIN A. LATIMER, 36 Beechwood Avenue. Business Address, 310 Main Street.	Dec. 31, 1920
WARD 7.—GEORGE H. FOSS, 530 Sumner Avenue.	Dec. 31, 1920
WARD 8.—GEORGE H. HOWARD, 820 State Street.	Dec. 31, 1920

SECRETARY,
BERTHA M. McCONKEY,
115 High Street.

SUPERINTENDENT OF SCHOOLS,
JAMES H. VAN SICKLE,

Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10 A. M. to 1 P. M.

ASSISTANT SUPERINTENDENT OF SCHOOLS,
ELEMENTARY SCHOOLS AND KINDERGARTENS,
BERTHA M. McCONKEY,

Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 11 A. M. to 1 P. M.

CHIEF CLERK,
FRED L. WARD,

Administration Building. Office hours: 8.30 A. M. to 5 P. M.;
Saturdays, 8.30 A. M. to 1 P. M.

CLERKS,

EDWINA A. MILLER,
CHARLES A. H. PARKER,
MARY E. BRENNAN,
ADA B. CLAPP,

A. LEOTA PINNEY,
ANNA F. LEONARD,
CATHERINE M. PACKARD,
HELEN D. FISK.

SUPERINTENDENT OF PUBLIC BUILDINGS,
HIRAM L. DORMAN,

Administration Building. Office hours: 10.30 to 11.30 A. M. and
4 to 5 P. M.

CLERKS,
FRANK J. DOWNEY,
CATHERINE E. GOGGIN.

ATTENDANCE OFFICER,
JOHN A. PARKER,

ASSISTANTS,
HARRY A. KILLMER,
LEONARD W. KNIGHT,
HARRY E. HANDY,

Administration Building. Office hour: 12.30 to 1.30 P. M.

SPECIAL COMMITTEES FOR 1919

Finance—The Mayor, Mr. Latimer, and Mr. James.

Text-Books and Supplies—Prof. Howard, Mr. Latimer, and Mr. Porter.

Central High School—Dr. Hall, Dr. Hirsch, and Prof. Howard.

Technical High School—Mr. James, Miss Clark, and Mr. Porter.

High School of Commerce—Mr. Latimer, Dr. Ober, and Mr. Porter.

Evening Schools—Prof. Howard, Mr. James, and Miss Clark.

Industrial Schools and Manual Training—Mr. Latimer, Mr. James, and Dr. Hirsch.

Kindergartens—Miss Clark, Dr. Ober, and Mr. Porter.

Physical Training and Hygiene—Dr. Hirsch, Mr. Porter, and Dr. Foss.

Music—Mr. Porter, Miss Clark, and Dr. Foss.

Household Science and Art—Miss Clark, Prof. Howard, and Dr. Hall.

New Buildings—Dr. Hall, Dr. Ober, and Dr. Foss.

Salaries—Dr. Hall, Mr. James, and Mr. Latimer.

Ward One Group of Schools—Brightwood, Chestnut street, Glenwood, Jefferson avenue, and Lincoln—Mr. James.

Ward Two Group of Schools—Armory street, Carew street, Charles street, and Hooker—Dr. Hirsch.

Ward Three Group of Schools—Howard street, State street, and William street—Dr. Ober.

Ward Four Group of Schools—Alden street, Barrows, Central street, Eastern avenue, School street, and Strickland—Mr. Porter.

Ward Five Group of Schools—Buckingham, East Union street, Tapley, and Worthington street—Miss Clark.

Ward Six Group of Schools—Acushnet avenue, Forest Park, and Sumner avenue—Mr. Latimer.

Ward Seven Group of Schools—Kensington avenue, Washington, and White street—Dr. Foss.

Ward Eight Group of Schools—Boston Road, Dry Bridge, East Main street (Indian Orchard), Five Mile Pond, Homer street, Liberty, Myrtle street (Indian Orchard), Rushville Portable, and Sixteen Acres—Prof. Howard.

ADVISORY COMMITTEE FOR VOCATIONAL SCHOOL**METAL-WORKING DEPARTMENT.**

EDWARD S. POMEROY,
Master Mechanic, Smith & Wesson.

CLARENCE W. ALLEN,
Superintendent, Springfield Machine Co.

WOOD-WORKING DEPARTMENT.

A. G. CHAPMAN,
Carpenter-BUILDER.

C. H. CUTLER,
Foreman, Hampden Lumber Co.

WILLIAM FOSTER,
Sealer of Weights and Measures.

PRINTING DEPARTMENT.

WALTER R. PHILLIPS,
Job Printer.

CHARLES B. PORTER,
Foreman, Printing Department, Springfield Fire & Marine Insurance Co.

WILLIAM M. LESTER,
President and Treasurer, Loring-Axtell Co.

SCHOOL CALENDAR, 1919

First Semester ends.....	February 14, 1919
Second Semester begins.....	February 17, 1919
Spring Term ends.....	April 11, 1919
Summer Term begins.....	April 21, 1919
Summer Term ends.....	June 27, 1919

SCHOOL HOLIDAYS

New Year's Day.....	January 1
Washington's Birthday.....	February 22
Patriots' Day.....	April 19
Memorial Day.....	May 30
Columbus Day.....	October 12
Thanksgiving.....	(Thursday and Friday)

SCHOOL SESSIONS

Elementary Schools.....	8.45-11.45 A. M. 1.30-3.30 P. M.
State Street Junior High School.....	8.30 A. M.-2.30 P. M.
Central High School.....	8.30 A. M.-1.50 P. M.
High School of Commerce.....	8.30 A. M.-2.45 P. M.
Technical High School.....	8.30 A. M.-2.15 P. M.
Vocational School.....	8.30 A. M.-12 M. 12.30-4 P. M.

SCHOOL SIGNALS

Two blows, five times, at 11.30 A. M.

No afternoon session of elementary and junior high schools.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS

To the School Board:—

The current school year has been marked by the smallest September increase in enrollment for many years. Only in the kindergartens has the increase, 148, been normal. Enrollment in the senior high schools has increased by 56. Between the kindergarten and the senior high school, where usually an increase of at least 700 would be expected, a drop of 50 in enrollment has taken place. The lack of increase has been most conspicuous in the upper intermediate grades. This is due, no doubt, to the combined effect of the unusual demand for labor and the high cost of living which has made it necessary for many children to secure a work certificate to seek employment and thus add to the family income. During the school year 1916-17 employment certificates were issued to 945 different children; in 1917-18 to 1334. The various interruptions which the schools have suffered have also been contributing causes. Especially has this been the case with the recent epidemic of influenza. Unquestionably a much fuller enrollment would have been had this fall under normal conditions of health in the community.

SCHOOL ACCOMMODATIONS.

If the normal increase in enrollment had been realized, the city's already overtaxed accommodations would have proved conspicuously inadequate, for schoolhouse construction has not kept pace with the city's growth. Notwithstanding the fact that the Liberty School with its 8 class rooms; the new Hooker with its 9 class rooms in excess of the number in the old Hooker; the Washington with its 13 class rooms, have been lately occupied, we have in use in the city 29 improvised class rooms consisting of portables, basement rooms, hallways, etc.

By housing more than 1000 of the former high school freshmen in our former grammar school buildings, pressure upon the three centrally

located high schools has been temporarily transferred to the six grade or elementary schools which can be multiplied at far less expense than is required to provide suitable educational facilities for children of grades VII to XII.

The State Street and the Forest Park schools have already become exclusively junior high schools by the transfer of grades below the seventh. The Buckingham School still retains classes of grades V and VI, but these will soon be crowded out by the junior high school grades of the locality. The Homer Street addition should provide the needed elementary class rooms for the transfer, which will leave the Buckingham with only junior high school grades. Likewise the Chestnut Street Junior High School must soon be relieved of its elementary grades. The Myrtle Street School in Indian Orchard and the Central Street School will doubtless remain junior high and elementary for many years.

To obviate the difficulty of providing for pupils who are ready for senior high school in some departments, but not in all, pupils from all the junior high schools who have completed work in two departments, but not in all, are now enrolled in the State Street Junior High School. The periods are synchronous in this school with those in the Central High School and teachers and pupils pass from one building to the other for recitations whenever desirable.

Beginning in 1910 the total annual enrollment in the senior high school classes (omitting the freshmen, now classed as junior III) is shown in the following table:—

	Central	Technical	Commerce
1910.....	450	295	241
1911.....	468	358	272
1912.....	478	437	275
1913.....	464	497	321
1914.....	498	531	407
1915.....	571	563	547
1916.....	572	561	604
1917.....	600	561	618
1918.....	701	642	864
Capacity.....	800	750	1500

This table may help to fix the date when each of the senior high schools will be filled to capacity. The date will evidently be an early one for both the Central and the Technical, for we cannot regard the September drop in enrollment of 28 at Central and 20 at the Technical as other than a temporary loss. Last June each was within 100 of its full enroll-

ment. Either enlarged could for a time take overflow classes from the other. Mr. Warner, principal of the Technical High School, has suggested that the new two-story brick building recently constructed on the Technical High School grounds as barracks for the S. A. T. C., but no longer needed for that purpose, might at slight expense furnish fairly comfortable rooms for several features of the work of this school and the Evening School of Trades.

Needed expansion at the Central High School presents a more complex problem. Before the building can be extended to the west, quarters must be provided elsewhere for the junior high school classes now enrolled in the old State Street building. Meanwhile, physical training facilities should be provided in the space between the Central High and the State Street Junior High schools by building a gymnasium which would form an integral part of the addition to be completed later.

The High School of Commerce will not be filled to capacity with senior high school pupils for several years, possibly four, though increasing rapidly, 246 in 1917; 108 in 1918. Meanwhile, its surplus space is economically occupied by junior III pupils from Central Street and Buckingham schools.

INTERRUPTIONS.

In 1916 the schools opened a month late on account of the prevalence of infantile paralysis. In 1917 the coal situation caused a shut-down of four weeks. This year the schools were closed for seven weeks during the epidemic of influenza. On the last two occasions home lessons were assigned to pupils in senior and junior high schools and on the whole the assigned work was so faithfully performed that the enforced vacations did not represent a total loss in these grades, yet the work was seriously handicapped in each instance. The present situation is the more serious, since this is the third year in succession in which less than the usual time has been available for the year's work.

SUMMER SCHOOL.

In view of this series of interruptions, the wisdom of instituting a supplementary session of six weeks for grades V to XII in the summer of 1918 will hardly be questioned, nor will its continuance in the summer of 1919 be open to adverse argument. Though the announcements of the 1918 summer session were put out very late, and after plans in many instances had been made for a different use of children's time, there was an enrollment of 1642 in the three summer school centers. The attend-

ance was exceptionally good, ranging from 93 to 96 per cent in junior and senior high school classes and 89 to 93 per cent in grades V and VI. The health of the children and teachers was good, and buildings proved to be very comfortable, frequent remarks being made by children that it was more comfortable in school than at home or out of doors. Interest in the work was great and unflagging. There can be no doubt that the session was a time-saver for many children, and that, too, without physical loss or discomfort.

THE JUNIOR COLLEGE.

The second year of the Springfield Junior College is proving more successful than the first. Pupils in September entered successfully the sophomore classes of Smith College, Brown, and Oberlin universities. The numbers for the current year have been affected to some extent by the attractions of the S. A. T. C. and the operation of the universal service act. The enrollment for the year is 35, of whom 19 are looking forward to carrying on their work in other institutions.

The Junior College offers varied opportunities for courses beyond the high school. By means of this institution a pupil who is prepared for college may get the complete freshman year of college work; or the high school graduate may take a year's business course, with stenography and typewriting, business English, office forms and practice; or a pupil may combine academic work of college grade with special training in domestic science, music, or art. Saturday courses for teachers are being given in the departments of history, mathematics, and science. Pupils in the City Library training course are enrolled in the history department. Though only a year old, the Junior College has already found many ways in which to serve the educational needs of the city.

SENIOR HIGH SCHOOLS.

Principal Warner calls attention to a recent loss in the number of girls at the Technical High School as compared with normal increase during the same period in the number of boys. This is shown by the following table:—

	Boys	Girls
1912.....	297	140
1913.....	313	184
1914.....	337	194
1915.....	362	201
1916.....	369	192
1917.....	374	187
1918.....	471	171

This loss appears to be coincident with the broadening of the home training for high school girls available now and for two or three years

past in the other two schools. If this is in part the result of lack of understanding on the part of parents of the vocational purpose of the progressive courses in household science and arts at the Technical High School as compared with the purely home-making aim of these courses at the other high schools, our literature must be revised to make this clear. It seems advisable, too, that girls be encouraged to take courses heretofore planned for boys only. The School Board has already called attention to the fact that courses in mechanical drawing and shop work are open to them.

Principal Warner suggests that to drawing and shop work might be added definite training in more intensified work in household science and arts, as, for example, food preparation on a larger scale than that of the cooking laboratory, the designing and production of wearing apparel, household decorative objects, etc., upon orders from the homes of pupils or others. This sort of productive activity might be extended to an organized plan for sending out groups of seniors to do catering for small parties, as has for some years been the practice of a practical arts high school of Boston.

It may not be out of place to recall at this point the investigation which the Chamber of Commerce has recently made on the subject of extending the educational facilities of the Technical High School to encourage the broader vocational preparation for girls. It will be remembered that this organization sent out questionnaires to the local manufacturers, from whom they received 47 replies, the great majority of which were entirely favorable to giving the same vocational training to girls as is given to boys. Five years ago the result of this investigation would probably have been different; but the experience of the past few years, under pressure of war needs, has revealed, as perhaps nothing else could, the industrial capacity of women.

Perhaps the event of greatest interest in the work of the High School of Commerce for this school year has been the coming of 33 young women from France for a two-year intensive course of training. Each of these young women had the equivalent of a high school education, and some of them had already earned a college degree. Very satisfactory progress has been made. All but three of them had studied English from one to four years before coming to this country, but no one of them had anything more than a very limited English vocabulary.

The course of study arranged for these young women includes courses in English and business correspondence, American history and literature, commercial geography, economics, stenography and typewriting, book-

keeping and office practice, business organization, and physical training, including hygiene. As soon as they have acquired the necessary preliminary training, these young women will be placed in representative business offices in the city so that they may become thoroughly familiar with American business methods and be qualified on their return to France to fill positions as private secretaries and office managers.

There is a very general feeling throughout the country that the United States should make plans immediately for acquiring a much larger share in the commerce of the world, and the School Committee has already voted to establish in the High School of Commerce a course of study in preparation for export trade. Some of the subjects to be included in this course are French, Spanish, foreign trade arithmetic, foreign trade banking and office methods, and some advanced courses in commercial geography.

THE VOCATIONAL SCHOOL.

Though handicapped through the absence of the director, Egbert E. MacNary, the school has had a successful year under Mr. George A. Burrige, the acting director. Men have been inducted into war service along lines for which special training fitted them as follows: woodwork, 5; machine work, 8; radio and buzzer operating, 97.

The enrollment during 1918 has been somewhat smaller than that of the previous year. (Enrollment 1917, 96; enrollment 1918, 92.) The great demand for trained help has drawn heavily from the skilled and unskilled boys enrolled in the day school. The net cost, \$6,590.13, for the past year is somewhat greater than it has been in previous years. This is due to the fact that the greater part of the war work activities were of an unproductive nature, such as radio and buzzer operating, blue print reading, and the like.

THE EVENING SCHOOL.

The evening schools opened this year six weeks later than had been planned, on account of the influenza epidemic. The usual evening courses at the Vocational School have been successful and the enrollment has been much greater than in 1917. The elementary evening schools show a lessened attendance of 37 per cent. The enrollment in the Evening High School on the first night was 695, compared with 702 on the first night of last year. At the present time the enrollment is nearly 1000. There has been a substantial gain in the number of women registered and a loss in the number of men. This was to be expected, as in normal

times we draw our men largely from those ranging in age from 21 years to 35 years. This year a large proportion of these men have been actively engaged in various branches of government service.

The machine shop practice course in the Evening School of Trades has a waiting list of about fifty applicants and the mechanical drawing classes are all large. A course in sheet metal working has been introduced. Owing to the large number of young men seeking instruction in electrical wiring, the room in the basement has been entirely inadequate for practice in this work.

MUSIC.

Among the outstanding features of the work in music, the following may be mentioned:—

The introduction of a new set of outlines for elementary schools; neighborhood song assemblies among the younger pupils for the purpose of stimulating interest and effort on the part of both teachers and pupils; the use in singing exercises of such of the war songs as were deemed worthy. Since these songs are included in the "popular" class, their use in our schools was somewhat of an innovation which is not to be looked upon as a surrender of the ideals which have been so carefully nurtured for many years, but rather as a recognition of the patriotic uplift to be secured from singing them.

DRAWING.

The art work was considerably modified in all topics through the period of the war. Arrangement, proportion, design, color study, and lettering have all been taught effectively while preparing games, small toys, puzzles, picture, story, and joke books for hospital use. Posters for the Red Cross membership drives, food conservation, and the sale of war savings stamps have been designed with enthusiasm and great value to the pupils and to the cause.

The supervisor of drawing has acted as one of the four group chairmen in a National School War Savings Poster Contest conducted throughout the United States by the Treasury Department. Twelve states comprised the Eastern Group and contributed more posters and advertised the sale of war savings stamps more extensively than any of the other groups participating in the contest. Universities, art, normal, high and grammar schools entered the contest, each in a class of its own. Awards have been granted for the best posters and at the present time a national school poster exhibit is circulating through the United States. This

exhibit is composed of prize winning posters and includes several designed by Springfield senior and junior high school pupils.

PHYSICAL TRAINING.

The supervisor, Mr. August E. Metzdorf, resigned last spring after an extended leave of absence for war work. Mrs. Grace W. Baxter, who had been acting director during his absence, was formally elected as supervisor of physical training of boys and girls in elementary and junior high schools and for girls in senior high schools. Among the features of the work of the year may be mentioned the special emphasis upon outdoor work for high school girls. Bicycling and walking clubs have been formed and swimming has been added as a voluntary sport.

In the junior high schools the work has been immensely benefited by the appointment of special teachers for both boys and girls. Coaches for after-school games are now provided on a pay basis, thus increasing their sense of responsibility by making them more strictly accountable to the supervisor.

NATURE STUDY.

Springfield is one of the few cities in the United States in which a supervisor of nature study is employed. In consequence we were prepared by experience and personnel to respond promptly and effectively to the war time demand for increased food production through home gardens. The work of our supervisor, Miss Fannie A. Stebbins, in promoting school gardening is so widely known, that her help in forwarding the work elsewhere was sought by Secretary Lane who appointed her (at a salary of \$1 per year) as "Aid in the U. S. School Garden Army of the Bureau of Education."

The supervision of our home gardens has been carried on with the help of 18 teachers besides the supervisor. They began early enlisting boys and girls in the school garden army. Each teacher worked especially in his own school. During the summer Mr. Thomas H. Kenworthy supervised the work of the other assistants with the co-operation of the Hampden County Improvement League. Of 1618 pupils enlisted, 1502 brought their projects to a successful close. This is a very high percentage. Fifty-one acres of land yielded products to the value of \$12,594 (part actual records from sales, part estimated). The finest record was that of George La Bonte, fifteen years old, who on one acre of land raised over three hundred dollars worth of vegetables.

THE WORLD WAR IN RELATION TO THE SCHOOLS.

In a great crisis such as that induced by the world war the public schools, touching as they do almost every home in the Commonwealth, must be closely affected. They have of necessity felt the stress of events since August, 1914. They have sent their students and graduates to home camps and foreign battlefields. They have been stirred to intense patriotic fervor and they have done their part in forwarding government and civilian projects for winning the war.

From the beginning thoughtful educators throughout the United States have sought to utilize patriotic feeling aroused by war conditions in quickening interest in the study of American and world history and in helping pupils to realize the interdependence of nations and peoples. The importance of the great moral issues at stake has been constantly emphasized and opportunities for unselfish service have been noted.

The far-reaching activities of the Red Cross have, from the first, made an especial appeal to the interest and imagination of school children and it soon became evident that the instinctive wish to "help" could be encouraged and made to bear fruit by permitting pupils to take an active part in the work of that organization. When the United States declared war, therefore, the Board approved a plan for the organization in the schools of a Junior Red Cross Association that would afford to every child opportunity for some form of patriotic service, however slight.

Realizing the danger of adding new labors to the already full program, much care was exercised by the committee of supervisors, principals, and teachers in charge of the Junior Red Cross in schools in replacing with special Red Cross work some of the regular school activities. In this way the work was motivated and the "war activities" added new interest to the school program and became of themselves a definite means of education. There has been a concerted effort to make all war activity educational and to prevent any exploitation of school children. For this reason public speaking by pupils and the soliciting of funds on the street have been discouraged.

Legitimate school activities have been co-ordinated with the Red Cross in the following ways:—

1. *Sewing.* Regular problems replaced by the making of articles for hospitals and for refugees.
2. *Cooking.* In harmony with the government food regulations, high school girls have cooked large quantities of food for food sales and

have done canning and preserving to order, giving the proceeds to the Junior Red Cross and to the support of French and Belgian orphans.

3. *Manual Training.* Regular problems replaced to some extent by the making of puzzles and games for camps and hospitals and the making of household utilities, toys, etc., for the Junior Red Cross fair that is to be held in the spring.

4. *Drawing.* All designs for games and puzzles for use in the camps and hospitals, designs for articles for Red Cross fair; many Red Cross posters for various drives.

5. *English.* Essays on Red Cross drive and on the work of the Red Cross throughout the world. Written suggestions as to ways of earning money for Red Cross work and for Thrift Stamps.

6. *Geography.* Following in the wake of the Red Cross on world maps; following on maps the travels of local Red Cross workers.

7. *Agriculture.* Cultivation of home gardens; cultivation of waste plots of ground; serving as farm laborers.

8. *Social Service.* Rendering assistance at general Red Cross headquarters; salvaging and sale of waste for benefit of Red Cross fund; collecting books for war libraries; assisting Liberty Loan drive, Thrift Stamp and Red Cross drives, and Belgian clothing drive.

AMERICANIZATION AND SCHOOL EXTENSION.

Plans are being made by the School Board for a greatly enlarged program of work for the adult immigrant. The excellent work now being accomplished in the regular evening school classes is to be augmented by social and club activities in centrally located school buildings and by factory and home classes in English. The plans include the appointment of a director of school extension whose duty it shall be to so widen the scope of public education that the largest possible use shall be made of all public facilities for self-improvement and recreation and to arrange to meet the needs of the adult immigrant in the manner best suited to secure his co-operation.

Respectfully submitted,

JAMES H. VAN SICKLE,

Superintendent of Schools.

December 30, 1918.

REPORT
OF
**DIRECTOR OF PSYCHOLOGICAL
LABORATORY**

Superintendent James H. Van Sickle, Public Schools, Springfield, Mass.

DEAR SIR: I have the honor to hand you herewith a report on certain phases of the work of the Psychological Laboratory since it was established five years ago. There have been examined 1506 school children, and 125 other children and adults. The school children are distributed throughout all the grades, from the kindergarten up to the different high schools. Most of them were referred to me because they presented problems of poor scholarship or difficulties of discipline. Some, however, and in increasing numbers, were referred for advice as to whether they should enter the Vocational School; which high school they should attend after finishing the grades; what college, if any, they should attend; or what vocation they were best adapted for after completing their education.

Of the children referred on account of poor scholarship, or some difficulty in discipline, the following groups are more or less clearly defined by the examinations:

1. Mental defectives, comprising thirty-five per cent of the total number. Those have been classed as mental defectives who are at least four years below the normal intelligence in both the ability to learn through symbols, i. e., words and numbers, and also the ability to learn through sense perceptions and activities. This criterion of mental deficiency is more conservative than is usually adopted, especially in its stress upon the objective qualities of mind in distinction from the symbolic qualities, only those who are conspicuously lacking in both being rated as defective. The mental defectives range from the idiot up to the borderline type of intelligence, or hyper-moron, and are distributed, approximately, as follows: idiots, one half of one per cent of the total number of children referred to the laboratory; imbeciles, six and

one half per cent; morons, twenty per cent; and hyper-morons, or borderline cases, eight per cent.

2. Physical defectives, comprising thirty-two per cent. Those have been classed as physical defectives who show no essential mental retardation that cannot be explained as due to physical causes, and who have one or more physical defects of a sufficiently serious nature to retard them mentally. The physical defects most common, in order of frequency, are defective eyesight; general organic deficiency, as shown in malnutrition, lack of lung capacity, lack of strength and resistance to fatigue; and hypertrophied tonsils and adenoid growths.

3. Maladjusted pupils, comprising twenty-two per cent. Those have been classed as maladjusted who have no physical defects of a significant character and whose mental qualities are specialized rather than defective. They are, for the most part, pupils whose visual perception and memory of letters, words and numbers are poor, but whose limitations in these respects are compensated for, and more than compensated for, by their perception and memory of objects and their skill in hand activities. They are a type of mind distinctively characterized by objective qualities of mental imagery. They think concretely, and may be called "object-minded."

4. A miscellaneous group of children, comprising eleven per cent. In this group are placed those whose home or neighborhood environment is the outstanding cause of their retardation; or whose general habits of mind and life, as the result of environment or other factors, are the cause; or who have some primary moral defect, or defects that are unusually prominent,—such as excessive cruelty, weak property sense, chronic untruthfulness, precocious vagrancy, perverted sexuality, etc.

The general character of these four groups of retarded children, as well as their relative sizes, should be estimated in the light of certain conditions under which the examinations have been made. First of all, the school community from which the children have been drawn is large and diversified. It represents more than 20,000 children with an unusually large proportion of foreign children in several of the schools from which many of the cases of retardation were referred. Again, in spite of the purpose, from the beginning of the work, to make the laboratory a selective agency in differentiating educational and vocational types, the principal demand on the part both of teachers and parents has been in behalf of pupils presenting the worst problems in school and home life. Particularly was this true during the first two or three years of the work, when there was a general sifting out of the mental defectives,

and other perplexing types of children. While it was the desire of the director of the laboratory to get at more of the maladjusted boys and girls, and particularly to aid in directing teachers and parents in choosing courses of study, or modifying them, to suit all kinds of mental types, the most urgent problems were not educational or vocational, but those growing out of the daily exigencies of the schoolroom and the home. Hence the large proportion of mental defectives among the children examined, and the relatively small proportion of the maladjusted, and these latter of the more elementary sub-type, but few of the higher grade maladjusted pupils being sent for examination. The significance of these facts has been felt by the director of the laboratory in the light of previous experience in a Hartford district school of some 1700 pupils. Here the school community was small and more homogeneous, and the laboratory being in the school buildings could be brought into closer relationship with the larger educational problems and community interests. As a result of the children examined, only twenty-three per cent were mentally defective, some twenty-five per cent were maladjusted, and forty-four per cent were physically defective. On the face of these statistics, it might be inferred that Springfield has much the larger percentage of mentally defective children, much the smaller percentage of physically defective, and a substantially smaller percentage of maladjusted pupils. The probability, however, is that these ratios have been considerably affected by the conditions surrounding the work in the two communities.

The disposition of the children examined in Springfield during the last five years has been, so far as possible, in accordance with the conclusions reached in the individual cases. Considering the different groups of children in the order of effective treatment, we may note first the group of physical defectives. Through the work of Miss Marian Studley, the visiting teacher, acting as mediator between the laboratory, the schools and the homes, and also with the assistance of the teachers, parents have been induced in a large number of cases to call in their family physicians and get their advice and help in removing the causes of the physical defects. Where the parents have been too poor to provide medical or surgical treatment, various charitable and semi-charitable agencies have been set to work upon the cases. Numerous physicians, oculists, throat and nose specialists, and dentists have assisted by giving reduced rates, or even free treatment where circumstances warranted it. The tuberculosis clinic has been employed in a number of cases. Children of very low vitality have been referred to the open-air schools. While there is need of a more effective co-ordination of all these various social service

agencies, and of benevolent minded experts generally, in behalf of school children; and while free throat and nose clinics, free eye clinics, as well as free dental clinics, should be maintained by the city,—nevertheless the agencies already in existence insure a fair solution of the problem of physical defects as affecting the educational program of the public schools.

The miscellaneous group has also been treated with a fair degree of success, at least within the limits usually possible in such cases. Penal and reformatory agencies, like the juvenile court, the truant school, the House of the Good Shepherd, Brightside, and the various state institutions, have been made use of, where home and school agencies have failed; and a large percentage of the worst offenders have been provided for, according to the usual standards of punishment and reformation. Where there has been found bad home environment, the Children's Aid Society and other benevolent agencies have been made use of where circumstances made it necessary and advisable. Where a bad neighborhood environment has seemed to be the essential difficulty, either from a sanitary or a moral view point, parents have been frequently induced to move to a better neighborhood for the sake of their children. In four cases, at least, the families have moved out of the city, upon suburban farms, to give their children the environment recommended.

The maladjusted group has been treated through transferring pupils to classes and schools better adapted for them, wherever the consent of parents could be obtained, and where there was room available. Springfield is unusually equipped to take care of the higher grades of object-minded pupils in its practical arts classes, the Vocational School, and the Technical and Commercial High schools. If a suggestion growing out of the psychological examinations of Springfield school children may be made, looking to such an extension of sense and manual education as would still more effectively meet the needs of maladjusted pupils, it would be this: Organize one or more practical arts schools, with all the grades between grade II and grade VII, in one building, and with courses for both boys and girls based upon sense training and manual activities, with thorough, but incidental, instruction in language, mathematics, history, literature, etc.,—the whole designed to give a foundation training for the elementary trades and for intelligent citizenship. Next, bring the Vocational School into such a relationship with these practical arts schools, that competent pupils graduating from the latter might continue their training for the more skilled trades. Perhaps the Technical High School might also be correlated with the practical arts schools and the Vocational School, so as to take care of especially picked boys

and girls coming up through such schools. In some such way the specialized types of children, representing fine sense endowments and technical ability, might be given advantages suited to their endowments and their desserts as individuals and as members of the community.

It is with the group of mental defectives that the greatest difficulties have been encountered in trying to make the work of the psychological laboratory practically effective. Substantial beginnings, as we have found, have been made for the disposition of all the other groups; and the various lines of community work in their behalf are fairly well recognized. The same can hardly be said of the group of mental defectives. Adequate provision has thus far been made for only two classes, of thirteen each, open to the more elementary feeble-minded. This is but five per cent of the total number of mentally defective children brought to light during the five years the psychological laboratory has been in operation. True, a considerable number of those examined have been gotten into Waverley or Wrentham. But these institutions are overcrowded; they have hundreds on their waiting lists, and there is no chance whatever, if such a thing were desirable, of their ever being able to take care of all the feeble-minded in the State. Their authorities believe, and say, that the various communities of the State must prepare themselves to take care of at least the higher grade mental defectives at home. This is a large undertaking, and when thoroughly understood and appreciated, will be recognized as a responsibility of almost appalling magnitude.

As related to our present purpose, the problem of the feeble-minded points, so far as its educational aspects are concerned, towards the establishment of a comparatively large school, thoroughly equipped with a graded course of manual education and the simpler elements of ordinary school studies, facilities for teaching elementary trades to both sexes, and an environment of buildings, apparatus, playgrounds, etc., for physical training. This school should be supervised by an expert in training mental defectives, and should be equipped with teachers competent to make the most out of the material they have to work with. If a question be raised as to whether it is worth while for Springfield to incur the expense involved in such a school, considering the quality of the pupils, the answer can only be: What is the alternative?

All questions of altruism aside for the moment, though, indeed, these may not be disregarded, community self-interest dictates the intelligent care and training of these defective children. Even five hundred adult mental defectives, be there no more, in Springfield, without training of any sort, is an ominous thing to contemplate for the immediate future

of the city. These men and women, like their prototypes now with us, will mingle with the population of the community. No one can escape their influence. Industrially they will affect our welfare in many fundamental ways. They will do much of the menial work of the city,—as servants in our houses, municipal employees in the street department, collectors of ashes and other waste from our basements, brick masons, carpenters, plumbers, it may be, teamsters, jitney drivers, etc. Our convenience, comfort, safety, will depend upon them. How important, then, is it that they should be as well trained as possible for these tasks that we shall assign them! Socially, too, and as citizens, they will be with us. From their kind now come fifty per cent of our tramps, criminals, prostitutes, and paupers. Much of the worst social distress, expense, and anxiety is due to them. Some of the worst diseases are perpetuated in civilization because of them. If we can make them intelligent enough, and efficient enough, to reduce by one half all these evils, the money necessary for properly educating them will be well invested. No one can examine these mentally defective children, these potential men and women, under laboratory conditions, and note their helplessness in coping with the ordinary conditions of life, without shuddering at the possibilities for themselves and society of allowing them to grow up untrained and neglected. On the other hand, no one can note the gleams of intelligence in some promising directions, the frequent tender sensibilities, the affections, and faithfulness, without wishing that the best of these unfortunates, at least, might have just as good opportunities, educationally and otherwise, as the community can provide.

Outside of these four groups of retarded children, there have been examined some 125 children and adults. Acting on the suggestion of the Superintendent's office, the laboratory has been made, so far as possible, a community institution. The following organizations and institutions have availed themselves of its services: the Cathedral School, the House of the Good Shepherd, the Good Will Home, the Children's Aid Society, the State Board of Charities, the Union Relief Association, the Juvenile Court, the Hampden County Truant School, Christ Church, and York Street Jail. More recently, parents have sought advice as to the further education of their children or the vocation they should enter. Young people of both sexes, some of them still in the high schools, some in office work or trades, are more and more applying for examinations or consultation in regard to their further education or occupation. Within a week two brothers, students in the Technical High School, have been examined, at their own request, to get some clue as to whether certain

ambitions they nourish, are well grounded. Out of all this increasing interest in vocational guidance, and the results of examinations of young people more or less specially gifted, there has emerged another great need in our educational system, namely, provision for unusually bright and talented young men and women. This seems particularly evident as regards those who have more or less genius for the industrial arts, and the fine arts. We are better equipped educationally to inspire and direct gifted youth along lines of literary culture and the regular professions than along the more artistic technical lines. There is need of supplementing our public school education at this point. Why should the ordinary high grade school system not include provision for work similar to what is found in Pratt Institute in the departments of domestic arts, fine arts, etc., or in the Boston School of Fine Arts? A city like Springfield, with its cosmopolitan school population representing the most artistic nations of Europe, ought to develop a generation of sculptors, painters, potters, metal workers, leather workers, and fine artificers generally, that would make it a center of artistic creations along industrial and aesthetic lines. There have passed through the laboratory during the past five years Italian children in whose sensitive, delicately controlled hands, fine color and space perceptions, exquisite tone sense, etc., one could well imagine there reside gifts such as gave to Italy Michael Angelo, Guido Reni, Titian or Paganini. If, indeed, one such gifted mind could be discovered by an educational system, it would justify any reasonable expenditure of money.

Respectfully submitted,

GEORGE E. DAWSON,

Director of the Psychological Laboratory.

December 26, 1918.

ANNUAL REPORT

OF THE

ATTENDANCE OFFICER

To the School Board:—

I have the honor to present herewith the report of the work of the Attendance Officers for the school year 1917-1918:—

Number of visits to stores and factories,.....	311
Number of visits to moving picture houses and theaters,.....	12
Number of visits to hotels,.....	5
Number of visits to bowling alleys,.....	4
Number of minors found illegally employed,.....	274
Number of visits to school buildings,.....	2,002
Number of cases reported from schools,.....	14,125
As follows: for absence, 11,959; truancy, 1,110; tardiness, 552; school offenders, 46; non-attendants, 20; evening school pupils, 438.	
Number of children found,.....	1,954
Upon investigation it was found that 1,477 were absentees, 234 were truants; 20 were tardy children; 222 were non-attendants; 1 was an evening school pupil.	
Of the children found, 93 absentees, 21 truants, 15 non-attendants, 4 newsboys, were taken to their homes; and 73 absentees, 117 truants, 6 non-attendants, 6 tardy children, were taken to school.	
Number of visits made to homes,.....	17,759
Divided as follows: for absentees, 14,835; census, 151; truants, 1,399; tardiness, 392; school offenders, 45; non-attendants, 210; newsboys, 51; evening school pupils, 676.	
Number of individual absentees investigated,.....	7,897
Heads of families warned by letter that they would be prosecuted unless their children were sent to school regularly,.....	39
Prosecutions for failure to cause children to attend school,.....	29
Number of habitual absentees prosecuted,.....	3
Number of habitual absentees committed to the Hampden County Training School,.....	2
Number of pupils truant,.....	837
Number of truantries,.....	1,415

Number of days of truancy, ...	1,386
Number prosecuted as habitual truants, ...	40
Number committed to the Training School, ...	12
Number of cases continued from day to day for sentence, ...	28
In addition to the boys committed to the Hampden County Training School, one boy who was on parole had his parole revoked and was returned.	
Number of school offenders prosecuted, ...	8
Number of school offenders committed to the Hampden County Training School, ...	6
Prosecutions against persons for inducing children to absent themselves from school, ...	1
Number of children not attending any school, ...	269
Of these 47 were reported; and 222 were discovered by the Attendance Officers. These cases were disposed of as follows: 203 have entered school; 7 were sick and physicians' certificates were received; 26 left town; 24 were under age; 9 received employment certificates.	
Number of boys licensed for street trades during the year, ...	117
Prosecutions against minors for selling newspapers without a badge, ...	2
Prosecutions against persons for permitting minors to sell papers illegally, ...	1
Number of evening school pupils prosecuted for not attending evening school regularly, ...	5
Number of individual children whose names appeared on the Attendance Officers' records for the year, ...	9,240
Number of certificates issued during the past year, ...	11,898
Employment certificates, ...	3,448
Educational certificates, ...	7,868
Educational certificates (illiterate), ...	582
Persons and firms warned by letter for employing minors without certificates, ...	5
Prosecutions against persons and firms for employing minors illegally, ...	7
(A penalty of ten dollars was imposed on two of these.)	
Prosecutions against proprietors of bowling alleys for employing minors illegally, ...	1
(Penalty imposed, fifteen dollars.)	
Prosecutions against minors for presenting a forged evidence of age, ...	1
Prosecutions against minors for signing a doctor's name to a certificate of health, ...	1
Number of cases referred to the Hampden County Children's Aid Association, ...	26
Number of cases referred to the Health Department, ...	7
Number of cases referred to the Union Relief Association, ...	27
Number of cases referred to the School Nurse, ...	48
Number of cases referred to the Visiting Teacher, ...	3

Number of cases referred to the Woman Probation Officer,.....	1
Number of cases referred to the Tuberculosis Dispensary of the City Health department,.....	1

A noticeable feature of the foregoing statistics and one having a direct bearing on the efficiency of the attendance department is the number of children dealt with during the year, 9,240 in a school population of about 22,000. 7,897 of these children were absentees. Over 5,000 of these absentees came to our attention but once during the school year. As 14,835 visits to homes were made in investigating these cases, the figures indicate that about 2,800 pupils required nearly 10,000 visits. These cases are the legitimate ones for reference to the attendance department. If a pupil's attendance is not irregular enough to require more than one investigation during the year, it does not require any, except in the case of suspected truancy. The time spent on the 5,000 cases dealt with but once was largely wasted and was at the expense of the other 2,800 which needed prompt treatment. Unless the expense of maintaining the attendance department is to be increased by the appointment of more officers, teachers must co-operate by reporting only necessary cases, those needing attention because the absences of the pupils reported are in violation of the school laws and are so frequent as to interfere with the progress of the pupils in school, or because truancy is suspected. It seems to me the function of the attendance department is to enforce the laws relating to school attendance and not merely to increase the percentage of attendance in any particular school or to furnish messenger service to secure information concerning children five or six years of age.

Another salient point in connection with the statistics is the large number of truants and trancies,—an increase over the preceding year of 45 per cent in the number of pupils truant, 52 per cent in the number of trancies, and 52½ per cent in the number of days of truancy. These figures show that while there were nearly half again as many pupils truant as in the preceding year there was an even greater increase in the number of trancies and days of truancy, indicating that the pupils who were truant absented themselves more frequently and for longer periods although the average duration of each truancy was still less than one day. Of the 837 pupils truant 514 were truant but once, and therefore the remaining 323 truants were responsible for 901 trancies. It was found necessary to take 40 of these pupils before the court in order to control them and of this number 12 had to be committed to the Hampden County Training School. This abnormal increase I believe to be due largely to the enforced closing of schools owing to the fuel shortage, although

the general unrest caused by the war was undoubtedly a contributing cause. In estimating the value of an educational system a factor too seldom taken into account is the moral effect of the discipline of regular school attendance. I venture to say that if all schools should be closed for three years the increased cost of police protection and maintenance of schools for delinquents would equal the present school budget. After weeks of being uncontrolled children naturally find it hard to again conform to the regular habits of school discipline and it is scarcely to be wondered at that part of them should try to escape by truancy. If "To prepare the young for the duties of life is tacitly admitted to be the end which parents and school masters should have in view," then every effort should be made to avoid interference with school work. School duties to a child constitute the principal business of life. If these duties are set aside lightly it may cause boys to have an impatience with "stick-to-it-iveness" that will interfere seriously with their future. I believe a better and more patriotic way of saving coal is possible than by closing schools. In the matter of controlling contagious disease, the moral effect of closing all of the schools should be carefully weighed and, if possible, the thoroughness of medical inspection and school nursing increased in time of epidemic so the schools would be the safest places for children to be and would actually furnish a means of locating at once any incipient cases of the disease which, through the neglect of parents to secure medical attention for their children, would not otherwise be reported. Closing schools should be only a last resort.

The new Hampden County Training School was opened on January 1, 1918, and has proved adequate in size for the number of boys committed to it.

The attendance department met with a serious loss during the year by the death in France of Lieutenant B. R. Madison. He was very faithful and capable in his work, securing results without friction in the case of parents and being liked and respected by the boys.

We have received the continued help of the various organized charities of the city and are grateful for it.

We also wish to express our appreciation of the help of the Police Court, which is always willing to give sufficient time to try to determine the underlying causes of delinquency and to apply in each case such legal disposition as seems most likely to furnish a remedy.

Respectfully submitted,

JOHN A. PARKER,
Attendance Officer.

December 30, 1918.

STATISTICS
ACCOMPANYING
Superintendent's Report.

TABLE SHOWING VALUE OF LAND AND BUILDINGS AND EQUIPMENT.

SCHOOLS.	Land	Buildings.	Total.
Acushnet Avenue,.....	\$16,000.00	\$46,188.94	\$62,188.94
Alden Street,.....	3,800.00	14,556.76	18,356.76
Armory Street,.....	8,500.00	145,758.47	154,258.47
Barrows,.....	18,700.00	44,842.44	63,542.44
Berkshire Avenue,.....	100.00	.....	100.00
Boston Road,.....	1,500.00	12,830.02	14,330.02
Brightwood,.....	6,500.00	182,453.31	188,953.31
Buckingham,.....	45,000.00	166,100.22	211,100.22
Carew Street,.....	18,000.00	46,456.29	64,456.29
Carlisle,.....	8,000.00	200.00	8,200.00
Central High,.....	172,800.00	850,855.51	523,655.51
Central Street,.....	20,000.00	77,222.06	97,222.06
Central Street,.....	.....	1,112.59	1,112.59
Charles Street,.....	4,000.00	14,457.36	18,457.36
Chestnut Street,.....	41,000.00	270,619.33	311,619.33
Dry Bridge,.....	1,000.00	1,546.33	2,546.33
Eastern Avenue,.....	6,400.00	30,461.42	35,861.42
East Union Street,.....	5,000.00	24,533.81	29,533.81
Emery Street Shop and Storehouse,...	7,000.00	47,513.90	54,513.90
Five Mile Pond,.....	500.00	2,000.00	2,500.00
Forest Park,.....	30,000.00	94,609.89	124,609.89
Glenwood,.....	2,500.00	16,548.45	19,048.45
High School of Commerce,.....	174,200.00	736,748.24	910,948.24
Homer Street,.....	12,000.00	87,450.47	99,450.47
Hooker,.....	148,600.00	60,857.24	209,457.24
New Hooker,.....	29,500.00	231,145.14	260,645.14
Howard Street,.....	88,600.00	197,394.51	285,994.51
Myrtle Street, I. O.,.....	6,500.00	186,252.82	192,752.82
East Main Street, I. O.,.....	8,000.00	12,678.66	15,678.66
Jefferson Avenue,.....	7,500.00	41,253.05	48,753.05
Kennington Avenue,.....	10,500.00	98,504.72	109,004.72
Liberty,.....	3,250.00	73,836.83	77,086.83
Lincoln,.....	24,000.00	90,404.98	114,404.98
Portables:			
Dry Bridge,.....	.....	1,550.00	1,550.00
Forest Park,.....	.....	4,225.00	4,225.00
Homer Street,.....	.....	3,546.96	3,546.96
Rushville,.....	.....	3,482.34	3,482.34
White Street,.....	.....	1,525.00	1,525.00
School Street,.....	85,500.00	20,321.23	55,821.23
Sixteen Acres,.....	500.00	2,587.17	3,087.17
State Street,.....	69,000.00	78,188.78	147,188.78
Strickland,.....	5,000.00	20,919.18	25,919.18
Sumner Avenue,.....	49,000.00	60,100.14	109,100.14
Tapley,.....	22,000.00	70,743.34	92,743.34
Technical High,.....	134,684.59	236,744.85	421,429.44
Vernon Street Building,.....	42,900.00	3,155.53	46,055.53
Vocational,.....	79,800.00	43,883.83	123,683.83
Wachogus,.....	200.00	800.00	1,000.00
Washington,.....	.....	126,717.66	126,717.66
White Street,.....	14,000.00	49,915.48	63,915.48
William Street,.....	14,000.00	58,377.31	72,377.31
Worthington Street,.....	12,000.00	67,333.56	79,333.56
	\$1,346,534.59	\$4,241,511.11	\$5,588,045.70
Operating Equipment:—			
Furniture and Fixtures,.....		\$180,954.18	
Miscellaneous,.....		28,156.71	
			209,110.89
Books and Educational Equipment,.....			229,324.95
			\$6,026,481.54

FINANCIAL SUMMARY.

(For the fiscal year ending November 30, 1918.)

	Appropriations. Original.	Additional.	Total.	Plus or Minus Transfers.	Net Appropriations.	Expenditures.	Balances.
Administration.	\$27,000.87		\$27,000.87	{	\$26,867.47	\$26,809.43	\$53.04
Central High School,	84,475.00	\$537.50	85,012.50	{	85,012.50	84,586.42	426.08
Technical High School,	90,510.00	487.50	90,997.50		90,997.50	84,403.38	6,594.12
Evening School of Trades,	8,280.00		8,280.00		8,280.00	5,696.23	2,583.77
High School of Commerce,	97,780.00	612.50	98,342.50		98,342.50	94,496.97	3,845.53
Evening High School,	6,735.00		6,735.00		6,735.00	4,552.14	2,182.86
Vocational School,	19,975.00		19,975.00		19,975.00	17,967.12	2,007.88
Vocational Evening School,	1,781.00	2,642.50	4,373.50		4,373.50	3,674.39	698.61
Vocational—Special,	100.00		100.00		100.00	80.00	70.00
Graded Schools,	589,215.00	18,912.50	608,127.50	—417.80	607,709.70	599,136.56	8,573.14
Kindergartens,	89,178.75	1,950.00	91,128.75		91,128.75	89,631.85	1,496.90
Elementary Evening Schools,	6,140.00		6,140.00		6,140.00	2,894.78	2,245.22
Summer Schools,		8,000.00	8,000.00	+251.00	8,251.00	8,245.69	5.31
Total,	\$970,070.42	\$33,142.50	\$1,003,212.92	—\$300.00	\$1,002,912.92	\$972,125.46	\$30,787.46
*Schoolhouse Property,	265,573.95		265,573.95		265,573.95	261,013.90	4,555.05
Total,	\$1,235,644.37	\$33,142.50	\$1,268,786.87	—\$300.00	\$1,268,486.87	\$1,233,144.36	\$35,342.51
High Schools Lunch,	38,784.00		38,784.00	—800.00	37,984.00	25,385.50	12,598.50
Total,	\$1,274,428.37	\$33,142.50	\$1,307,570.87	—\$1,100.00	\$1,306,470.87	\$1,258,529.86	\$47,941.01

*Under control of City Property Committee.

EXPENDITURES

ADMINISTRATION.

Salaries.	
Superintendent.....	\$5,000.00
*Assistant Superintendent.....	1,000.00
Secretary of School Committee.....	100.00
Chief Clerk.....	2,500.00
Clerks.....	6,138.38
Attendance Officers.....	5,566.53
	\$20,804.91
Stationery and Office Supplies.....	865.60
Printing.....	1,048.55
Advertising.....	36.89
Communication Service.	
Postage.....	691.65
Telephone.....	78.06
Telegraph.....	85.47
	800.18
Transportation Service.	
Freight and Express.....	6.29
Miscellaneous Supplies and Expenses.	
Auto upkeep.....	250.00
Magazine subscriptions.....	51.30
Miscellaneous.....	9.60
	310.90
Traveling Expenses.....	392.23
Maintenance and Repairs of Equipment.....	2.00
New Equipment.....	135.60

STOREHOUSE.

Salary—Clerk.....	1,066.65
Expenses.	
Assistance.....	645.91
Telephone.....	66.74
Delivering supplies.....	1,595.57
Miscellaneous.....	17.97
	2,326.19
New Equipment.....	18.44
	\$26,809.43

*In addition to salary as Supervisor of Elementary Schools and Kindergartens, which is included in item, "Salaries—Supervisors," under the account in Graded Schools.

CENTRAL HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal.....		\$4,000.00
Salaries—Clerical Assistance.....		1,326.94
Office Supplies.....		90.14
Printing.....		608.05
Communication Service.		
Postage.....	\$59.00	
Telephone.....	9.88	
		68.88
Transportation Service.		
Freight and Express.....		1.44
Miscellaneous Supplies and Expenses.....		5.70
Traveling Expenses.....		174.64

OPERATION.

Salaries—Teachers.		
Heads of departments.....	16,962.50	
Teachers.....	54,905.86	
		71,868.36
Miscellaneous Assistance.		
Laboratory.....	115.58	
Drawing.....	14.95	
Physical training.....	350.06	
Office.....	79.47	
Piano accompanist.....	83.34	
		643.40
Books.		
Text.....	1,757.18	
Reference.....	76.21	
Magazine subscriptions.....	18.48	
Binding.....	99.12	
Covers.....	79.76	
		2,030.70
Stationery Supplies.		
Paper.		
White.....	\$948.07	
Manila.....	.90	
Drawing.....	50.74	
Notebooks.....	297.18	
Envelopes.....	41.75	
Blotting.....	18.10	
Pressboard and cardboard.....	83.00	
Miscellaneous.....	276.86	
		1,661.60
Ink.....	47.10	
Paste, etc.....	9.36	
Pencils.....	51.85	
Pens and holders.....	9.96	
Thumb tacks and paper fasteners.....	21.52	
Rubber erasers.....	17.10	
Rubber bands.....	2.14	
Miscellaneous.....	3.00	
		1,823.63

Supplies and Materials used in Special Courses.

Science.			
Small glassware and other small laboratory articles,.	\$24.86		
Chemicals, ...	161.85		
Miscellaneous, ...	122.79		
			<u>\$309.00</u>
Domestic Science.			
Cookery.			
Provisions, ...	\$98.58		
Miscellaneous, ...	5.44		
		108.97	
Sewing supplies, ...		62.59	
			<u>166.56</u>
Physical Training.			
Rent of field, ...	75.00		
Miscellaneous, ...	60.90		
			<u>185.90</u>
Drawing.			
Paints, ...	108.66		
Miscellaneous, ...	139.29		
			<u>242.95</u>
			<u>\$854.41</u>
Other Operating Supplies.			
Outline maps, ...		89.19	
Compasses, ...		187.16	
Rules, ...		1.50	
Blackboard erasers, ...		12.00	
Sponges, ...		5.27	
Chalk, ...		12.00	
Pencil sharpeners, ...		14.20	
Miscellaneous, ...		21.70	
			<u>243.02</u>
Other Operating Expense.			
Graduation expenses, ...		192.44	
Tuning and rent of pianos, ...		65.00	
			<u>257.44</u>
Maintenance and Repairs of Equipment.			
Science, ...		10.84	
Domestic science, ...		8.40	
			<u>19.24</u>
Replacement of Equipment.			
Science, ...		62.80	
Physical training, ...		24.00	
			<u>86.80</u>
New Equipment.			
Science, ...		846.78	
Domestic science, ...		28.88	
Miscellaneous, ...		108.97	
			<u>484.63</u>
			<u>\$84,586.42</u>

TECHNICAL HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal,.....		\$3,600.00
Salaries—Clerical Assistance,.....		1,754.45
Office Supplies,.....		153.80
Printing,.....		407.17
Communication Service.		
Postage,.....	\$97.24	
Telephone,.....	87.63	
		184.87
Transportation Service.		
Freight and Express,.....		57.63
Miscellaneous Supplies and Expenses,.....		1.15
Traveling Expenses,.....		81.91

OPERATION.

Salaries—Teachers.		
Heads of departments,.....	17,927.50	
Teachers,.....	52,941.73	
		70,869.23
Miscellaneous Assistance.		
Tool room,.....	241.28	
Household science,.....	5.20	
Drawing,.....	2.80	
Laboratory,.....	33.25	
Design,.....	23.60	
Physical training,.....	41.10	
Piano accompanist,.....	83.33	
Miscellaneous,.....	47.15	
		477.71
Books.		
Text,.....	702.58	
Reference,.....	96.93	
Magazine subscriptions,.....	15.00	
Binding,.....	25.62	
Covers,.....	125.10	
Mending materials,.....	2.50	
		967.73
Stationery Supplies.		
Paper.		
White,.....	\$182.60	
Notebooks,.....	250.65	
Envelopes,.....	3.25	
Blotting,.....	3.60	
Miscellaneous,.....	18.75	
		408.85
Ink,.....	12.03	
Pencils,.....	49.95	
Pens and holders,.....	33.50	
Rubber erasers,.....	7.70	
Rubber bands,.....	3.60	
		515.63

Materials and Supplies used in Special Courses.

Chemistry and Physics.		
Small glassware and other small laboratory articles,.....	\$59.86	
Chemicals,.....	56.51	
Miscellaneous,.....	89.17	
		\$205.04
Drawing.		
Small drawing tools,.....	21.32	
Paper, pencils, and ink,.....	656.37	
Miscellaneous,.....	87.35	
		715.04
Machine Shop.		
Small tools,.....	108.66	
Castings and metals,.....	367.80	
Miscellaneous,.....	14.93	
		491.39
Wood Working.		
Lumber,.....	518.53	
Small tools,.....	62.01	
Miscellaneous,.....	81.09	
		661.63
Household Science.		
Provisions,.....	237.02	
Miscellaneous,.....	54.23	
		291.80
Household Arts.		
Sewing supplies,.....	62.36	
Miscellaneous,.....	13.08	
		75.94
Design.		
Miscellaneous,.....		59.20
Forging.		
Coal,.....	30.00	
Metals,.....	203.97	
Miscellaneous,.....	1.81	
		235.28
Physical Training.		
Rent of field,.....	75.00	
Miscellaneous,.....	114.35	
		189.35
		\$2,924.17
Other Operating Supplies.		
Compasses,.....	7.29	
Paper towels,.....	44.00	
Miscellaneous,.....	48.56	
		99.85
Other Operating Expenses.		
Graduation expenses,.....	179.99	
Miscellaneous,.....	5.00	
		184.99
Maintenance and Repairs of Equipment.		
Chemistry and physics,.....	5.03	
Machine shop,.....	21.05	

Wood work,.....	\$153.94	
Design,.....	20.70	
Gymnasium,.....	55.60	
		\$256.32
Replacement of Equipment.		
Wood work,.....	59.47	
Design,.....	8.20	
		67.67
New Equipment.		
Chemistry and physics,.....	407.12	
Drawing,.....	18.45	
Machine shop,.....	1,020.07	
Wood work,.....	119.03	
Physical training,.....	180.50	
Miscellaneous,.....	53.93	
		1,799.10
		\$84,408.38

EVENING SCHOOL OF TRADES.

ADMINISTRATION.

Salary—Principal,.....	\$350.00
Salaries—Clerical Assistance,.....	129.60
Printing,.....	29.12
Other Miscellaneous Expenses,.....	6.00

OPERATION.

Salaries—Teachers,.....	4,984.00
Miscellaneous Assistance.	
Tool room,.....	\$74.65
Collecting fees,.....	15.00
	89.65
Supplies and Materials used in Special Courses.	
Machine shop,.....	17.81
Electricity,.....	91.99
Plumbing,.....	42.81
Sewing,.....	5.25
	157.86
	\$5,696.28

HIGH SCHOOL OF COMMERCE.

ADMINISTRATION.

Salary—Principal,.....	\$3,800.00
Salaries—Clerical Assistance,.....	1,670.00
Stationery and Office Supplies,.....	87.96
Printing,.....	464.31
Communication Service.	
Postage,.....	\$32.00
Telephone,.....	21.69
	53.69
Transportation Service.	
Freight and Express,.....	35.29
Traveling Expenses,.....	52.71

OPERATION.

Salaries—Teachers.			
Heads of departments,.....	\$12,501.00		
Teachers,.....	62,529.49		
			\$75,030.49
Salaries—Matron,.....			758.75
Salaries—Miscellaneous.			
Moving pictures,.....	228.00		
Physical training,.....	130.15		
Piano accompanist,.....	83.33		
Miscellaneous,.....	3.86		
			445.34
Books.			
Text,.....	1,545.76		
Reference,.....	200.66		
Magazine subscriptions,.....	21.00		
Binding,.....	60.09		
Covers,.....	322.19		
			2,149.70
Stationery Supplies.			
Paper.			
White,.....	\$754.02		
Manila,.....	32.50		
Drawing,.....	44.60		
Bookkeeping,.....	1,065.31		
Notebooks,.....	259.58		
Blotting,.....	60.76		
Typewriting,.....	351.78		
Pressboard and cardboard,.....	76.80		
Miscellaneous,.....	194.78		
		2,840.08	
Ink,.....		135.26	
Pencils,.....		197.40	
Pens and holders,.....		160.38	
Thumb tacks and paper fasteners,.....		22.40	
Rubber erasers,.....		10.50	
Rules,.....		35.70	
Typewriter ribbons,.....		217.65	
Miscellaneous,.....		17.00	
			3,636.37
Supplies and Materials used in Special Courses.			
Laboratory.			
Small glassware and other small laboratory articles,.....	12.50		
Chemicals,.....	211.39		
Miscellaneous,.....	111.87		
		335.76	
Shop.			
Lumber,.....	285.46		
Small tools and hardware,.....	86.22		
Miscellaneous,.....	79.29		
		450.97	
Cookery.			
Provisions,.....	430.49		
Miscellaneous,.....	165.02		
		595.51	

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Sewing.....	\$83.80	
Salesmanship.....	16.42	
Physical Training.		
Rent of field.....	\$75.00	
Laundry.....	519.65	
Miscellaneous.....	84.25	
		678.90
		\$2,161.86
Other Operating Supplies.		
Paper towels.....	318.92	
Outline maps.....	21.61	
Miscellaneous.....	138.45	
		478.98
Other Operating Expenses.		
Moving pictures.....	421.89	
Graduation expenses.....	175.63	
Miscellaneous.....	9.50	
		607.02
Maintenance and Repairs of Equipment.....		65.79
Replacement of Equipment.		
Laboratory.....	8.40	
Shop.....	31.04	
Miscellaneous.....	17.46	
		56.90
New Equipment.		
Shop.....	336.34	
Cookery.....	14.80	
Physical training.....	122.25	
Typewriters.....	685.00	
Adding machine.....	281.25	
Calculating machine.....	300.00	
Filing equipment.....	751.46	
Miscellaneous.....	451.21	
		2,942.31
		\$94,496.97

EVENING HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal.....	\$245.00
Salaries—Clerical Assistance.....	98.00
Printing.....	63.88
Communication Service.	
Postage.....	54.00

OPERATION.

Salaries—Teachers.....	3,742.50
Books.....	18.73
Stationery Supplies.	
Paper.	
White.....	\$8.70
Typewriter.....	57.20
Manila.....	1.80
Drawing.....	1.24
Bookkeeping.....	48.18

Notebooks,.....	\$69.86	
Blotting,.....	.69	
Pressboard and cardboard,.....	.20	
Miscellaneous,.....	1.02	
		\$188.89
Pencils,.....		29.60
Pens and holders,.....		15.50
Rubber erasers,.....		.24
		\$234.23
Other Operating Supplies,.....		39.35
Other Operating Expenses.		
Graduation expenses,.....	23.84	
Drawing models,.....	20.00	
Miscellaneous,.....	13.11	
		56.95
		\$4,552.14

VOCATIONAL SCHOOL.**ADMINISTRATION.**

Salary—Principal (Acting),.....		\$1,390.00
Salaries—Clerical Assistance,.....		921.80
Stationery and Office Supplies,.....		2.33
Communication Service.		
Postage,.....	\$58.35	
Telephone,.....	7.47	
		65.82
Transportation Service.		
Freight and Express,.....		7.92
Other Miscellaneous Expenses,.....		1.55
Traveling Expenses,.....		6.88

OPERATION.

Salaries—Teachers,.....		10,222.66
Salaries—Miscellaneous,.....		14.25
Books,.....		12.50
Stationery Supplies.		
Paper.		
White,.....	\$10.61	
Manila,.....	6.50	
Envelopes,.....	3.35	
Blotting,.....	.29	
Pressboard and cardboard,.....	3.30	
Miscellaneous,.....	9.00	
		33.05
Paste, etc.,.....		7.45
Pencils,.....		3.00
Thumb tacks and papers fasteners,.....		6.25
Rubber erasers,.....		.68
		50.43
Materials and Supplies used in Special Courses.		
Printing.		
Paper and cardboard,.....	1,092.07	
Ink,.....	158.95	
Miscellaneous,.....	100.70	
		1,351.72

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Carpentry.		
Lumber,.....	\$56.95	
Hardware,.....	8.78	
Miscellaneous,.....	33.82	
		\$99.55
Cabinet.		
Lumber,.....	120.24	
Hardware,.....	7.44	
Miscellaneous,.....	18.85	
		146.53
Pattern.		
Hardware,.....	39.59	
Miscellaneous,.....	1.83	
		41.42
Machine Shop.		
Small tools,.....	30.61	
Metals and castings,.....	411.77	
Miscellaneous,.....	158.62	
		601.00
		\$2,240.22
Other Operating Supplies.		
Paper towels,.....	341.75	
Miscellaneous,.....	16.02	
		357.77
Other Operating Expenses.		
Graduation expenses,.....	1.50	
Miscellaneous,.....	27.59	
		29.09
Maintenance and Repairs of Equipment.		
Printing,.....	18.30	
Carpentry,.....	20.46	
Cabinet,.....	3.80	
Pattern,.....	1.00	
Machine shop,.....	15.40	
Miscellaneous,.....	14.00	
		72.96
Replacement of Equipment.		
Printing,.....	397.67	
Carpentry,.....	6.98	
Cabinet,.....	3.67	
Machine shop,.....	277.95	
		686.27
New Equipment.		
Printing,.....	670.68	
Carpentry,.....	178.59	
Cabinet,.....	76.09	
Machine shop,.....	379.36	
Miscellaneous,.....	79.95	
		1,834.67
		\$17,967.12

VOCATIONAL—SPECIAL.

Tuition.	
Smith's Agricultural School of Northampton.....	\$30.00

VOCATIONAL EVENING SCHOOL.

Salaries—Teachers.....	\$3,550.45
Supplies.....	108.16
Other Expenses.....	16.28
	\$3,674.89

GRADED SCHOOLS.**ADMINISTRATION.**

Salaries.		
Supervisors.....	\$20,972.50	
Supervising Principals.....	45,787.50	
		\$66,760.00
Salaries—Clerical Assistance.....		490.00
Stationery and Office Supplies.....		86.61
Printing.....		1,015.19
Communication Service.		
Telephone.....		1,450.26
Transportation Service.		
Freight and Express.....		9.40
Miscellaneous Supplies and Expenses.....		4.00

OPERATION.

Salaries—Teachers.....		466,033.79
Salaries—Matrons.....		4,394.40
Salaries—Miscellaneous.		
Industrial work.....	604.22	
Physical training.....	50.50	
Care of lunch rooms.....	108.00	
		762.72
Transportation of Pupils.....		2,710.00
Support of Truants.....		952.36
Books.		
Text.....	10,874.53	
Reference.....	1,098.22	
Binding.....	320.77	
Mending materials.....	43.00	
Covers.....	3,695.84	
Writing copies.....	180.00	
		16,161.86
Stationery Supplies.		
Paper.		
White.....	\$4,948.02	
Manila.....	2,316.20	
Drawing.....	1,256.22	
Bookkeeping.....	240.00	
Notebooks.....	817.72	
Envelopes.....	366.30	

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Blotting,.....	\$158.68	
Pressboard and cardboard,.....	634.43	
Miscellaneous,.....	206.70	
		\$10,989.27
Ink,.....		803.49
Paste, etc.,.....		362.19
Pencils,.....		1,960.88
Pens and holders,.....		2,169.78
Thumb tacks and paper fasteners,.....		341.91
Rubber erasers,.....		164.08
Rubber bands,.....		76.68
Miscellaneous,.....		43.80
		\$16,862.08
Materials and Supplies used in Special Courses.		
Physical Training.		
Soccer football,.....	15.63	
Baseball,.....	278.21	
Gymnasium,.....	10.70	
Phonograph records and dance music,.....	86.50	
Miscellaneous,.....	185.70	
		571.74
Industrial Work.		
Lumber,.....	2,241.59	
Metals,.....	297.88	
Cement, sand, etc.,.....	25.78	
Paints, etc.,.....	488.95	
Hardware,.....	890.44	
First-aid supplies,.....	36.63	
Printing supplies,.....	263.03	
Mechanical drawing,.....	415.46	
Miscellaneous,.....	357.78	
		5,016.99
Household Science and Practical Arts.		
Cookery.		
Provisions,.....	\$1,423.14	
Ice,.....	47.48	
Dishes and cooking utensils,.....	182.22	
Laundry,.....	48.21	
Miscellaneous,.....	16.95	
		1,718.00
Sewing,.....	409.36	
		2,127.36
Science.		
School gardens,.....	93.95	
Miscellaneous,.....	409.84	
		503.79
Drawing.		
Paints,.....	383.54	
Paint pans and brushes,.....	178.67	
Drawing crayons,.....	869.14	
Miscellaneous,.....	132.48	
		1,563.83
		9,783.71

Other Miscellaneous Supplies.

Kindergarten materials,.....	\$155.17	
Outline maps,.....	79.00	
Compasses,.....	354.80	
Rules,.....	165.41	
Maps, charts, and globes,.....	196.95	
Blackboard erasers,.....	244.92	
Sponges,.....	472.96	
Chalk,.....	187.84	
Penell sharpeners,.....	160.24	
Scissors,.....	914.70	
Mats,.....	62.75	
Burlap,.....	75.90	
Paper towels,.....	1,024.01	
Linen towels,.....	812.65	
Hygiene supplies,.....	106.81	
Miscellaneous,.....	1,134.09	
		\$5,648.00

Open-Air Rooms.

Provisions,.....	1,270.75	
Labor,.....	85.00	
Miscellaneous,.....	185.44	
		1,441.19

Other Operating Expenses.

Tuning pianos, etc.,.....	98.90	
Graduation expenses,.....	1.75	
		98.65

Maintenance and Repairs of Equipment.

Physical training,.....	2.00	
Industrial work,.....	120.16	
Household science and practical arts,.....	11.24	
Science,.....	4.50	
Miscellaneous,.....	10.30	
		148.19

Replacement of Equipment.

Industrial work,.....	224.07	
Household science and practical arts,.....	111.48	
Science,.....	44.40	
Miscellaneous,.....	58.80	
		438.70

New Equipment.

Physical training,.....	360.00	
Industrial work,.....	1,182.38	
Household science and practical arts,.....	138.32	
Science,.....	262.09	
Drawing,.....	120.00	
Miscellaneous,.....	2,877.66	
		4,440.45
		\$599,136.56

KINDERGARTENS.

Salaries—Teachers,.....	\$88,105.20
Supplies,.....	688.72
Other Operating Expenses,.....	65.15
Replacement of Equipment,.....	84.50
New Equipment,.....	788.28
	\$89,631.85

ELEMENTARY EVENING SCHOOLS.

Salary—Principals,.....	\$456.50
Salaries—Teachers,.....	2,872.50
Books,.....	12.96
Stationery Supplies,.....	49.62
Other Supplies,.....	3.20
	\$2,894.78

SUMMER SCHOOLS.

Salaries,.....	\$7,984.50
Supplies,.....	261.19
	\$8,245.69

HIGH SCHOOLS LUNCH.

Salaries.	
Director,.....	\$1,220.00
Assistant director,.....	690.00
Assistance,.....	6,068.91
	\$7,968.91
Supplies.	
Provisions,.....	16,604.55
Ice,.....	199.75
Cleaning supplies,.....	22.72
Napkins,.....	30.60
Miscellaneous,.....	29.60
	16,887.22
Other Expenses.	
Cafeteras,.....	30.82
Laundry,.....	115.56
Postage,.....	5.00
Telephone,.....	49.50
Miscellaneous,.....	78.82
	279.70
Maintenance and Repairs of Equipment,.....	19.15
Replacement of Equipment,.....	217.02
New Equipment,.....	13.50
	\$25,885.50

SCHOOL BUILDINGS.

Expenditures for the operation and maintenance of school buildings, including alterations and permanent improvements, and for new buildings, are made by the Committee on City Property of the City Government, not by the School Board. They are included in this report as a matter of information and convenience.

	Appropriations.	Expenditures.	Balances.
Administration,.....	\$7,243.65	\$7,113.78	\$129.87
Operation,.....	209,729.12	206,061.85	3,667.27
Maintenance,.....	48,601.18	47,843.27	757.91
Total,.....	\$265,573.95	\$261,018.90	\$4,555.05

EXPENDITURES FOR NEW BUILDINGS.

Technical High School,.....	\$17,984.09
Boston Road School,.....	601.00
Brightwood School,.....	16,377.70
Hooker School,.....	111,620.04
Howard Street School,.....	447.50
Liberty School,.....	77,086.83
Rushville School,.....	100.00
Washington School,.....	116,405.17
	<u>\$340,622.33</u>

RECEIPTS.

	Tuition.	From Commonwealth.	Books and Materials sold, etc.	Moving Pictures.	Recovered Expenditures.	Total.
Central High School,	\$3,875.00		\$15.16			\$3,890.16
Technical High School,	6,639.50		148.01			6,787.51
Evening School of Trades,	1,109.00		24.44			1,133.44
High School of Commerce,	4,210.35		125.74	\$510.05		4,846.14
Evening High School,	941.62					941.62
Vocational School,	1,673.00	\$8,595.08	137.06			10,405.14
Vocational Evening School,	279.00					279.00
Graded Schools,	5,526.50	343.50	601.59		\$7.87	6,479.46
Summer Schools,	28.50					28.50
Total,	\$24,282.47	\$8,938.58	\$1,052.00	\$510.05	\$7.87	\$34,790.97
High Schools Lunch,						26,627.89
						\$61,418.86

COST PER PUPIL.

(Based on average number belonging during fiscal year.)

SCHOOLS.	Teachers' Salaries.	Books.	Supplies and Other Expenses of Instruction.	Repair and Replacement of Equipment.	Transportation of Pupils.	New Equipment.	Total.	Administration Expenses.	Total.
Central High.....	\$101.94	\$2.73	\$3.19	\$0.14	....	\$0.65	\$113.65	\$3.22	\$116.87
High School of Commerce.....	100.00	2.46	12.63	.15	....	2.68	135.32	3.79	139.11
Technical High.....	16.23	1.57	11.63	.15	....	2.31	137.74	2.79	140.53
Vocational.....	167.93	1.17	51.63	10.52	....	26.10	249.74	7.07	256.81
Graded.....	84.93	1.06	2.83	.04	\$0.19	.29	40.33	1.14	41.47
Kindergarten.....	84.99	.69	2.69	.03	....	.63	36.39	1.03	37.42
Evening High.....	4.18	.03	.90	....	....	....	7.51	.91	8.42
Evening Trades.....	23.89	....	1.86	....	....	....	25.75	.73	26.48
Evening Elementary.....	3.94	....	.91	....	....	....	9.15	.26	9.41
Evening Vocational.....	23.09	....	1.10	....	....	....	24.19	.63	24.82
Summer Schools.....	5.29	....	.17	....	....	....	5.46	.15	5.61
AVERAGES.									
Day—High.....	\$93.01	\$2.24	\$10.36	\$0.25	....	\$2.38	\$113.24	\$3.21	\$116.45
Day—Elementary.....	36.41	1.99	2.91	.08	\$0.17	.43	40.99	1.16	42.15
All DAY Schools.....	43.69	1.15	3.79	.10	.15	.66	49.54	1.40	50.94
All EVENING Schools.....	11.31	.01	.91	....	....	....	12.23	.35	12.58

SCHOOL CENSUS

Population of City, 1915 (State Census) 102,971
 Population of City, 1918 (Assessors' Estimate) 130,000

Number of children in Springfield between 5 and 16 years of age on April 1, 1918:

	5 yrs. to 7 yrs.	7 yrs. to 14 yrs.	14 yrs. to 16 yrs.	Total.
Public Schools, ...	Boys 1,533 Girls 1,481 3,014	Boys 5,833 Girls 5,601 11,434	Boys 1,105 Girls 1,305 2,410	Boys 8,471 Girls 8,387 16,858
Parochial Schools, . .	Boys 225 Girls 240 465	Boys 1,186 Girls 1,342 2,528	Boys 122 Girls 177 299	Boys 1,533 Girls 1,759 3,292
Otherwise In- structed, ...	Boys 14 Girls 10 24	Boys 66 Girls 81 147	Boys 36 Girls 55 91	Boys 116 Girls 146 262
Not Attending School, ...	Boys 39 Girls 37 76	Boys 12 Girls 17 29	Boys 8 Girls 16 24	Boys 59 Girls 70 129
At Work, ...	Boys .. Girls	Boys .. Girls	Boys 522 Girls 371 893	Boys 522 Girls 371 893
Total, ...	Boys 1,811 Girls 1,768 3,579	Boys 7,097 Girls 7,041 15,138	Boys 1,793 Girls 1,924 3,717	Boys 10,701 Girls 10,733 21,434

Illiterate Minors, Males 240

Females 149

389

Number of children in Springfield between 5 and 16 years of age:—

September 1, 1910 14,659
 September 1, 1911 15,221
 September 1, 1912 15,915
 September 1, 1913 16,855
 September 1, 1914 17,480
 September 1, 1915 18,129
 April 1, 1917 20,018
 April 1, 1918 21,434

SUMMARY, SCHOOL ENROLLMENT AND ATTENDANCE.

(For the school year, September 4, 1917—June 28, 1918.)

SCHOOLS.	Enrollment.	Average Number Belonging.	Average Number Attending.	*Per cent. of Attendance.
Senior High, Elementary and Junior High, Kindergartens,	2,261 17,752 2,084	2,145.5 15,336.8 1,102.9	1,989.5 14,076.4 856.7	92.7 91.8 77.8
All Day Schools,	22,047	18,585.2	16,922.6	91.1
Evening High, Evening Elementary, Evening Trades, Evening Vocational,	1,202 860 953 252	661.1 411.1 259.6 92.8	457.7 307.4 209.4 65.7	69.2 74.8 81.5 69.2
All Evening Schools,	3,267	1,424.6	1,040.2	73.4

* Obtained by dividing aggregate attendance by aggregate membership.

SUMMER SCHOOLS.

(For the six weeks, July 8—August 16, 1918.)

SCHOOLS.	Enrollment.	Average Number Belonging.	Average Number Attending.	Per cent. of Attendance.
High School of Commerce (Senior High),	259	235.6	222.5	94.5
High School of Commerce (Junior High and Grades V and VI),	635	572.4	529.3	92.4
Chestnut Street,	615	589.0	566.0	96.1
Forest Park,	183	113.2	100.3	88.6
	1,642	1,510.2	1,418.1	93.9

SCHOOL.	Total.	†Cases of Truancy.	Number of Corporal Punishments.
Central High,.....	93.3	16	0
High School of Commerce,.....	92.6	51	0
Technical High,.....	92.2	61	0
Vocational,.....	91.1	103	0
Junior High, High School of Commerce,.....	93.6	20	0
Acushnet Avenue,.....	89.1	39	4
Alden Street,.....	90.0	2	1
Armory Street,.....	88.6	46	32
Barrows,.....	93.5	43	5
Boston Road,.....	91.4	4	13
Brightwood,.....	89.8	51	16
Buckingham,.....	94.0	99	4
Carew Street,.....	88.0	74	9
Central Street,.....	92.6	46	9
Charles Street,.....	89.4	8	1
Chestnut Street,.....	91.1	178	19
Dry Bridge,.....	86.2	0	7
Eastern Avenue,.....	91.4	10	22
East Main Street (I. O. O. F.),.....	88.6	8	2
East Union Street,.....	90.1	7	8
Five Mile Pond,.....	92.1	0	0
Forest Park,.....	94.1	65	4
Glenwood,.....	92.6	1	3
Homer Street,.....	87.8	8	14
Hooker Street,.....	88.2	84	38
Howard Street,.....	93.0	55	15
Howard Street Operative,.....	90.6	0	0
Jefferson Avenue,.....	86.0	12	7
Kensington Avenue,.....	90.9	34	34
Lincoln,.....	92.0	24	19
Myrtle Street (I. O. O. F.),.....	92.7	44	3
Open-Air (Lincoln),.....	89.0	24	3
Rushville,.....	92.3	0	0
School Street,.....	90.8	3	3
Sixteen Acres,.....	98.1	0	3
State Street,.....	93.2	70	2
Strickland,.....	91.0	9	6
Sumner Avenue,.....	89.7	3	8
Tapley,.....	89.6	4	13
Washington,.....	88.2	3	1
White Street,.....	89.2	4	13
William Street,.....	91.2	37	9
Worthington Street,.....	91.0	43	21
Totals, Day Schools,.....	91.1	1,393	371
Evening High,.....	69.0		
Evening High, Preparatory,.....	74.8		
Chestnut Street,.....	72.4		
Howard Street,.....	77.6		
Indian Orchard,.....	72.8		
Worthington Street,.....	75.1		
Evening Trades,.....	81.5		
Evening Vocational,.....	69.2		
Totals, Evening Schools,.....	73.4		

*There were 208 schools; thus making the total number of

Central High,
High School of Commerce,
Technical High,

Total,

†Obtained by division
‡Including half of

NUMBER OF ROOMS IN ELEMENTARY SCHOOLS AND JUNIOR HIGH SCHOOLS.

(For the school year, September 4, 1917—June 28, 1918.)

	First Semester.					Second Semester.				
	Regular.	Ungraded.	Special.	Kindergarten.	Total.	Regular.	Ungraded.	Special.	Kindergarten.	Total.
Acushnet Avenue.....	11	..	1	1	13	11	..	1	1	13
Alden Street.....	4	..	..	..	4	4	..	..	..	4
Armory Street.....	22	..	1	1	24	20	..	1	1	22
Barrows.....	8	..	1	..	9	9	..	1	..	10
Boston Road.....	4	..	..	..	4	4	..	..	..	4
Brightwood.....	14	..	..	1	15	14	..	..	1	15
Buckingham.....	25	..	..	..	25	25	..	..	..	25
Carew Street.....	13	..	1	..	14	13	..	1	..	14
Central Street.....	16	..	2	1	19	16	..	2	1	19
Charles Street.....	4	..	..	..	4	4	..	..	..	4
Chestnut Street.....	40	..	..	..	40	40	..	..	..	40
Dry Bridge.....	2	..	..	..	2	2	..	..	..	2
Eastern Avenue.....	7	..	..	1	8	7	..	..	1	8
East Main Street, L. O.....	4	..	..	1	5	4	..	..	1	5
East Union Street.....	7	..	..	1	8	7	..	..	1	8
Five Mile Pond.....	..	1	..	..	1	..	1	..	..	1
Forest Park.....	22	..	..	..	22	22	..	..	..	22
Glenwood.....	2	..	..	..	2	2	..	..	..	2
Homer Street.....	12	..	..	1	13	12	..	..	1	13
Hooker.....	13	..	1	1	15	13	..	1	1	15
Howard Street.....	21	..	1	1	23	22	..	1	1	24
Jefferson Avenue.....	11	..	..	1	12	11	..	..	1	12
Kensington Avenue.....	15	..	1	1	17	16	..	1	1	18
Lincoln.....	16	..	..	..	16	16	..	..	..	16
Myrtle Street, L. O.....	17	..	..	1	18	17	..	..	1	18
Open Air.....	1	..	..	..	1	1	..	..	..	1
Rushville.....	2	..	..	..	2	2	..	..	..	2
School Street.....	4	..	..	..	4	4	..	..	..	4
Sixteen Acres.....	..	2	..	..	2	..	2	..	..	2
State Street.....	14	..	..	..	14	14	..	..	..	14
Strickland.....	6	..	..	..	6	6	..	..	..	6
Summer Avenue.....	10	..	..	1	11	10	..	..	1	11
Tapley.....	15	..	..	1	16	15	..	..	1	16
Washington.....	3	..	..	..	3	3	..	..	..	3
White Street.....	11	..	..	1	12	12	..	..	..	12
William Street.....	9	..	1	1	11	9	..	1	1	11
Worthington Street.....	11	..	2	1	14	10	..	2	1	13
Totals	396	3	12	18	429	397	3	12	18	430

AVERAGE NUMBER OF PUPILS TO A ROOM IN ELEMENTARY SCHOOLS.

	Figured on Enrollment.	Figured on Average Number Belonging.
Regular.....	42.8	37.1
Open-Air.....	35.0	40.7
Ungraded.....	23.3	20.1
Special:—		
Grade Auxiliary.....	23.8	21.6
General Auxiliary.....	37.3	28.0
Special Auxiliary.....	15.5	14.3
Language Auxiliary.....	29.5	21.0
Kindergartens.....	113.0	61.3

NUMBER OF TEACHERS' POSITIONS. DAY SCHOOLS.

(For the school year, September 4, 1917—June 28, 1918.)

	First Semester.			Second Semester.		
	Men.	Women.	Total.	Men.	Women.	Total.
Supervisors.....	3	8	11	2	8	10
High Schools						
Supervising Principals.....	3		3	3		3
Heads of Departments.....	16	7	23	16	6	22
Teachers, full time, senior high.....	29	69	98	30	73	103
Teachers, part time, senior high.....	1	2	3	1	4	5
Teachers, full time, senior and junior high.....	5	15	20	2	14	16
Teachers, part time, senior and junior high.....						
Teachers, full time, junior high in High School of Commerce.....	2	9	11	5	4	9
Teachers, part time, junior high in High School of Commerce.....	1		1	1		1
Teachers, full time, senior high and director of Vocational School.....	1		1			
Director.....				1		1
Teachers.....	7		7	7		7
Elementary and Junior High Schools						
Supervising Principals.....	9	15	24	9	15	24
Assistants to Supervising Principals and Associate Teachers.....		15	15		16	16
Principals who devote half or more than half their time to teaching.....		6	6		6	6
Assistants to Principals who teach.....		1	1		1	1
Regular teachers in charge of room.....		377	377		378	378
Regular teachers not in charge of room.....		2	2		1	1
Teachers of ungraded schools.....		3	3		3	3
Teachers of special rooms.....		12	12		12	12
Assistants to teachers of special rooms.....		1	1		1	1
Teachers of special subjects on full time in one building.....	19	34	53	19	31	50
Teachers of special subjects on full time who do not spend all their time in one building.....	1	3	4	1	6	7
Teachers of special subjects on part time who do not spend all their time in one building.....		1	1		1	1
General substitutes.....		3	3		3	3
Kindergarten teachers.....		17	17		17	17
Kindergarten assistants.....		29	29		27	27
Special						
Visiting teacher.....		1	1		1	1
Director of Psychological Laboratory.....	1	1	1	1		1
Director of High Schools Lunch.....		1	1		1	1
Totals.....	98	631	729	98	629	727

EVENING SCHOOLS.

(School term, October 8, 1917—March 29, 1918.)

	Men.	Women.	Total.
Principal, High.....	1		1
Teachers, High.....	11	19	30
Principal, Trades.....	1		1
Teachers, Trades.....	25	7	32
Principals, Elementary.....	2	1	3
Teachers, Elementary.....	1	33	34
Teachers, Vocational.....	6		6
Totals.....	47	60	107

HIGH SCHOOL GRADUATES.
(For the school year, September 4, 1917—June 28, 1918.)

	COURSES.											
	TOTALS.			College Preparatory.			General.			Commercial.		
	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls
CENTRAL HIGH.												
February, 1918,.....	50	22	28	11	2	9	39	20	19	...	...	...
June, 1918,.....	119	48	71	40	21	19	79	27	52	...	...	...
Total,.....	169	70	99	51	23	28	118	47	71	...	...	...
HIGH SCHOOL OF COMMERCE.												
February, 1918,.....	47	12	35	...	...	...	...	...	...	47	12	35
June, 1918,.....	96	31	65	...	...	...	...	...	...	96	31	65
Total,.....	143	43	100	...	...	...	...	...	...	143	43	100
TECHNICAL HIGH.												
February, 1918,.....	54	30	24	15	14	1	...	...	...	...	...	...
June, 1918,.....	77	44	33	28	25	3	...	...	...	...	...	...
Total,.....	131	74	57	43	39	4	...	...	...	...	...	...
TOTALS FOR ALL HIGH SCHOOLS.												
February, 1918,.....	151	64	87	26	16	10	39	20	19	47	12	35
June, 1918,.....	292	123	169	68	46	22	79	27	52	96	31	65
Total,.....	443	187	256	94	62	32	118	47	71	143	43	100

VOCATIONAL SCHOOL GRADUATES.
(For the school year, September 4, 1917—June 28, 1918.)

	COURSES.			
	Totals.		Carpentry.	Machine.
	Totals	Boys	Girls	Boys
February, 1918,.....	0	0	0	0
June, 1918,.....	6	6	0	6
Total,.....	6	6	0	5

CENTRAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 25, 1918.

CLASS.	AGE.	12	13	14	15	16	17	18	19	20	21	22	Totals.	
III A.....	Boys.					2	7	5	8				17	
	Girls.						7	10	4	1			22	39
III B.....	Boys.				1	6	7	5	8				22	
	Girls.				4	9	26	18	6	2			65	87
II A.....	Boys.					6	15	8	8				82	
	Girls.					10	11	7	5	1	1		35	67
II B.....	Boys.				9	17	17	5		1			49	
	Girls.			3	8	22	15	7					55	104
I A.....	Boys.		2	14	30	25	5	6	1				83	
	Girls.		1	31	57	86	12	1	1				139	222
I B.....	Boys.		7	21	24	14	14			1			81	
	Girls.	1	5	16	27	19	9	2					79	160
Specials.....	Boys.						1	1						
	Girls.											2	4	4
Totals,	Boys.													
	Girls.	1	9	35	64	70	65	29	10	2			264	
			6	50	96	96	81	46	16	4	1	2	399	683
		1	15	85	160	166	146	75	26	6	1	2	683	

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Av. Age of Class.
III A.....	Boys.	17-5	18-10	15-7	
	Girls.	18	20-3	16-8	17-8
III B.....	Boys.	17-1	19-1	15-4	
	Girls.	17-3	19-9	14-11	17-2
II A.....	Boys.	17-3	18-10	15-8	
	Girls.	17-4	20-6	15-6	17-4
II B.....	Boys.	16-4	19-7	14-6	
	Girls.	16-3	17-10	14-2	16-4
I A.....	Boys.	15-5	18-11	12-11	
	Girls.	15-2	19-5	13-6	15-4
I B.....	Boys.	15-1	20-2	12-7	
	Girls.	15-2	18-2	11-11	15
Specials.....	Boys.				
	Girls.	19-8	22-1	17-3	19-8

CENTRAL HIGH SCHOOL—Continued.

DISTRIBUTION OF PUPILS BY CLASSES AND COURSES.

CLASS.		College Preparatory	General.	Totals.	
III A.....	Boys.	16	1	17	39
	Girls.	8	14	22	
III B.....	Boys.	22	38	22	87
	Girls.	27		66	
II A.....	Boys.	23	4	32	67
	Girls.	10	25	35	
II B.....	Boys.	44	5	49	104
	Girls.	27	28	55	
I A.....	Boys.	71	12	83	222
	Girls.	99	40	139	
I B.....	Boys.	60	21	81	160
	Girls.	44	35	79	
Specials	Boys.		4		4
	Girls.			4	
Totals,	Boys.	241	43	284	688
	Girls.	215	184	399	
		456	227	683	

TECHNICAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 25, 1913.

CLASS.	AGE.	13	14	15	16	17	18	19	20	21	Totals.	
Post-Graduate.....	Boys.					1	1				2	2
	Girls.											
III A	Boys.				1	6	13	4	1		25	36
	Girls.				1	8	5	1	1		11	
III B.....	Boys.			2	9	13	7	4	1		36	70
	Girls.				7	15	8	4			34	
II A	Boys.			3	13	12	8	4		1	41	51
	Girls.			1	1	8	5				10	
II B.....	Boys.		1	10	36	10	9	1			67	102
	Girls.		1	6	14	12	2				35	
I A	Boys.	4	19	48	47	26	6	2			152	213
	Girls.	1	8	26	19	10	2				61	
I B	Boys.	11	47	58	23	9	8				146	166
	Girls.	1	3	10	5	1					20	
Totals,	Boys.	15	67	116	129	77	47	15	2	1	469	640
	Girls.	2	7	43	47	44	22	5	1	0	171	
		17	74	159	176	121	69	20	3	1	640	

TECHNICAL HIGH SCHOOL—Continued.**AVERAGE AGES.**

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate.....	Boys. Girls.	18-1	18-9	17-6	18-1
III A	Boys. Girls.	18-9 18-9	20-8 20-9	16-11 16-10	18-9
III B	Boys. Girls.	18-1 17-11	20-4 19-7	15-11 16-8	18-0
II A	Boys. Girls.	18-8 17-2	21-0 18-6	15-6 15-11	17-8
II B	Boys. Girls.	17-5 16-7	19-11 18-3	14-11 14-11	17-0
I A	Boys. Girls.	16-7 16-1	19-9 18-7	13-6 13-7	16-4
I B	Boys. Girls.	15-11 15-4	18-7 17-2	13-8 13-6	15-7

DISTRIBUTION OF PUPILS BY CLASSES AND COURSES.

CLASS.		Scientific.	College Prep.	Totals.	
Post-Graduate.....	Boys. Girls.	2		2	2
III A	Boys. Girls.	12 6	13 5	25 11	36
III B	Boys. Girls.	11 23	25 11	36 34	70
II A	Boys. Girls.	14 10	27 0	41 10	51
II B	Boys. Girls.	34 30	33 5	67 35	102
I A	Boys. Girls.	30 50	62 11	152 61	213
I B	Boys. Girls.	102 20	44 0	146 20	166
Totals,	Boys. Girls.	265 139	204 32	469 171	640
		404	236	640	

HIGH SCHOOL OF COMMERCE

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 25, 1918.

CLASS.	AGE.	13	14	15	16	17	18	19	20	21	Over 21	Totals.
Post-Graduate	Boys.				1	1	8	12	6	2	14	1
	Girls.											39
III A.....	Boys.				2	2	5	2	2			13
	Girls.				1	9	18	8	8	2		41
III B.....	Boys.				3	8	12					23
	Girls.				3	20	21	9	1			54
II A.....	Boys.											24
	Girls.			1	6	10	7	5	2			42
II B.....	Boys.					14	17	2	1	1		24
	Girls.			1	11	44	44	9	1			109
I A.....	Boys.		2	14	19	10	8					49
	Girls.		19	72	63	38	9			1		196
I B.....	Boys.	1	4	13	20	10	1		1			50
	Girls.	7	46	65	67	9	3	1	1			199
Totals	Boys.	1	6	28	55	50	29	8	7			184
	Girls.	7	65	149	184	130	80	38	12	6	14	680
		8	71	177	239	180	109	41	19	6	14	864

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate...	Boys.	20-2	20-2	20-2	
	Girls.	23-5	51-7	16-4	23-5
III A.....	Boys.	18	20-1	16	
	Girls.	18-3	20-8	16-5	18-2
III B.....	Boys.	17-5	18-5	15-8	
	Girls.	17-9	19-7	15-10	17-7
II A.....	Boys.	18	19-8	16-10	
	Girls.	17-6	20-6	15-5	17-8
II B.....	Boys.	16-9	19-9	15	
	Girls.	16-6	18-10	14-11	16-6
I A.....	Boys.	16-1	21	14-3	
	Girls.	15-8	18-5	13-6	15-9
I B.....	Boys.	15-10	19-7	13	
	Girls.	15-3	19-11	13	15-4

HIGH SCHOOL.		
	IIA.	IIIB.
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HIGH SCHOOL.				Grade Aux- iliary.	Genl. Aux.	Spec. Aux.	Lang. Aux.	Voca- tional.	Totals.
I.	IIA.	IIIB.	IIIA.						
...	...	...	...	...	...	...	...	...	792
...	...	...	...	...	...	...	...	...	1,075
...	...	...	...	...	5	2	...	...	1,689
...	...	...	...	1	4	1	...	...	1,706
...	...	...	...	7	2	1	...	...	1,675
...	...	...	...	4	4	3	...	...	1,735
...	...	...	...	10	5	7	...	...	1,720
1	1	...	...	22	12	3	1	...	1,635
5	3	...	...	24	19	4	5	...	1,590
7	52	18	3	12	20	5	5	...	1,393
8	137	139	51	8	15	3	5	18	1,229
...	169	257	168	6	14	1	3	20	640
...	90	158	147	1	6	...	3	17	236
...	28	60	81	...	2	...	1	7	37
...	3	8	11	...	...	...	...	1	9
...	...	3	5	...	...	...	...	...	2
...	...	...	2	...	...	...	...	...	
483	643	468		95	108	30	23	63	17,163

HIGH SCHOOL.				Grade Aux- iliary.	Genl. Aux.	Spec. Aux.	Lang. Aux.	Voca- tional.	Totals.
I.	IIA.	IIIB.	IIIA.						
...	...	...	93	...	...	...	...	...	93
...	...	...	...	24	...	...	...	...	549
...	...	...	...	...	...	...	...	...	162
...	...	...	...	15	...	...	...	...	905
...	...	...	...	21	...	...	...	...	415
...	...	...	...	...	...	...	...	...	146
...	...	...	...	18	...	...	...	...	572
116	117	49	...	...	...	...	...	...	956
...	...	...	...	...	...	...	...	...	578
42	39	...	...	...	21	16	...	...	623
...	...	...	...	...	...	...	...	...	154
185	189	104	...	...	...	...	...	...	1,362
...	...	...	...	...	...	...	...	...	66
...	...	...	...	...	...	...	...	...	274
...	...	...	...	...	...	...	...	...	172
...	...	...	...	...	...	...	...	...	321
...	...	...	...	...	...	...	...	...	23
62	153	117	...	...	...	...	...	...	761
...	...	...	...	...	...	...	...	...	36
...	...	...	...	...	...	...	...	...	619
...	...	...	...	...	43	14	...	...	840
...	...	...	...	...	26	...	...	...	915
...	...	...	...	...	...	...	...	...	494
...	...	...	...	17	...	...	...	...	639
...	...	...	...	...	...	...	...	...	198
...	...	...	...	...	...	...	...	...	607
17	16	17	...	...	...	...	...	...	633
...	...	...	...	...	...	...	...	...	61
...	...	...	...	...	...	...	...	...	120
2	...	...	...	...	...	...	...	...	34
59	124	88	...	...	...	...	...	...	451
...	...	...	...	...	...	...	...	...	231
...	...	...	...	...	...	...	...	...	399
...	...	...	...	...	...	...	...	...	690
...	...	...	...	...	...	...	...	...	523
...	...	...	...	...	...	...	...	...	421
...	...	...	...	...	18	...	...	...	489
...	...	...	...	...	...	...	23	...	563
...	...	...	...	...	...	...	...	63	63
483	643	468		95	108	30	23	63	17,163

TABLE SHOWING THE GRADUAL DROPPING OUT
OF PUPILS IN THE VARIOUS GRADES.
NUMBER OF PUPILS IN EACH GRADE.

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	Fresh- man.	Soph- omore.	Junior.	Senior.	Post- Grad.	
January, 1891,	1234	788	681	577	511	408	295	260	221						
January, 1892,	1307	893	841	541	523	468	327	245	222						
January, 1893,	1311	1013	918	648	483	477	350	226	230						
January, 1894,	1484	990	896	659	584	505	342	238	248						
September, 1894,	1618	936	1030	735	640	530	350	268	250	174	154	89	63		
September, 1895,	1539	1063	1035	794	724	513	445	277	263	177	126	96	65		
September, 1896,	1723	1020	1180	817	785	621	460	282	258	204	118	86	104		
September, 1897,	1731	1134	1211	980	789	754	474	381	274	206	159	93	88	15	
September, 1898,	1775	1145	1287	965	875	657	635	382	299	227	159	123	80	22	
September, 1899,	1789	1174	1243	1029	952	786	559	486	380	243	174	130	114	12	
September, 1900,	1717	1068	1294	1107	904	884	621	463	380	293	206	142	83	28	
September, 1901,	1717	1265	1226	1152	1024	892	759	548	378	298	212	68	104	26	
September, 1902,	1685	1297	1276	1088	1135	903	768	655	416	316	214	179	124	27	
September, 1903,	1772	1319	1180	1241	1072	986	799	633	464	390	260	172	122	18	
September, 1904,	1610	1314	1265	1260	1025	984	912	639	478	433	335	207	121	26	
September, 1905,	1663	1293	1271	1266	1140	977	881	661	560	360	248	229	132	16	
September, 1906,	1484	1375	1267	1249	1151	1025	941	712	514	509	338	236	185	16	
September, 1907,	1565	1348	1282	1221	1203	1059	970	792	593	464	353	272	176	16	
September, 1908,	1679	1515	1225	1339	1134	1164	974	914	650	584	363	292	192	38	
September, 1909,	1850	1386	1358	1264	1176	1122	995	924	741	638	409	299	225	35	
September, 1910,	1774	1404	1402	1303	1200	1148	1082	863	761	694	455	338	181	37	
September, 1911,	1731	1543	1373	1347	1300	1076	1058	926	716	729	492	366	226	25	
September, 1912,	1968	1397	1465	1311	1352	1189	1035	949	808	695	536	405	238	21	
September, 1913,	2218	1677	1481	1423	1347	1345	1162	898	690	787	547	450	277	25	
September, 1914,	2305	1789	1593	1451	1367	1350	1227	1046	899	932	631	457	316	39	
September, 1915,	2137	1872	1661	1513	1354	1407	1179	1081	1037	930	774	529	348	22	
September, 1916,	2233	1865	1809	1709	1477	1453	1211	976	926	935	728	582	356	64	
	I.	II.	III.	IV.	V.	VI.	Junior High.			(a) (b)		Senior High.			
	I.	II.	III.	IV.	V.	VI.	I.	II.	III.			I.	II.	III.	Post- Grad.
September, 1917,	2491	1963	1858	1857	1731	1488	1420	1196	1051	894	362	723	559	433	68
September, 1918,	2494	2079	1731	1892	1792	1724	1461	1213	1111			723	523	363	46

(a) Junior High School Class in High School of Commerce.
(b) Advanced Freshmen.

THE SENIOR HIGH SCHOOLS

The senior high schools are not managed as entirely separate and unrelated institutions. They are so conveniently grouped that interchange of students is easy and economical. Pupils choose courses, not schools. On promotion from the junior high school a pupil decides, with the advice and approval of his parents, what course among those offered in the senior high schools most fully meets his needs. He is then assigned for enrollment to that school in which his entire course, or the greater part of his course, is carried on. To secure certain portions of his work he may need to report for one or more periods each week at a recitation room, laboratory, or gymnasium in one of the other schools, but his assignment for enrollment in a school is decided on the basis of the predominant characteristics of the course which he chooses.

CENTRAL HIGH SCHOOL

First high school in Springfield; organized, 1841.

Central High School, organized, 1849.

Present building occupied, 1898.

Alumni Association organized, 1854.

Officers of the Alumni Association: Executive Committee: President, Frank Hodskins; vice-president, Mrs. George Pirnie; secretary, W. Meredith Wharfield; treasurer, Philip Beebe; Mrs. Edward H. Wilkinson, Mrs. Constance Fowler Leyden, Dwight Winter, Mrs. Kingman Brewster.

TECHNICAL HIGH SCHOOL

Manual training course opened to high school pupils, 1886.

Organized as Mechanics Arts High School, 1898.

Present name adopted, 1904.

Housed in present building and courses in household technology offered for girls, 1906.

Alumni Association organized, 1903.

Officers of the Alumni Association: President, Ray A. Burt*; vice-president, Arthur Lantz; secretary and treasurer, Milton M. Smith; member-at-large, Victor Wesson.

*Deceased.

HIGH SCHOOL OF COMMERCE

Organized as a department in Central High School, 1898.

Transferred to Technical High School, 1906.

Organized as High School of Commerce and transferred to Central High School Building, with sessions in the afternoon, 1910.

New building occupied, September, 1915.

Alumni Association organized, February 23, 1917.

Officers of the Alumni Association: President, John W. Colton; first vice-president, John W. Wood; second vice-president, Miss Margaret F. Ganley; secretary-treasurer, Mrs. Hazel Gibbins Miller; executive committee, John W. Colton, Mrs. Agnes Pope Flannery, Mrs. Hazel Gibbins Miller, Raymond B. Shattuck, Lloyd Galbraith, Miss Sara U. Freeman, and Principal Carlos B. Ellis.

TERMS OF ADMISSION TO ALL SENIOR HIGH SCHOOLS.

Pupils are admitted to the senior high schools twice a year. All pupils of the junior high schools who are recommended by the principals of these schools are admitted without examination.

Non-residents are admitted upon passing the required examination and paying a tuition of \$120 per year in advance. A special pamphlet containing the courses of study and all other necessary information in regard to these schools is issued separately, and may be obtained by applying to the Superintendent of Schools.

EVENING SCHOOL OF TRADES

Organized, 1898.

Conducted in Technical High School building, beginning 1906.

TERMS OF ADMISSION.

Tuition in all the classes is free to all persons over fourteen years of age who are residents of Springfield, but a fee of \$5 for materials and other incidental expenses is charged each member of the classes in machine shop practice, and in pattern-making; in plumbing this incidental fee is \$8, and in the laboratory work in electricity it is \$4. Non-residents are charged a tuition fee for the season of twenty-four weeks as follows: For mechanical drawing, for mathematics, and for electricity, \$10; for all

other classes, \$15. Non-residents are also charged the incidental fees. Members are required to be regular in attendance. Persons wishing to join classes must give satisfactory references as to character and show evidence of ability to do the work required. Certificates of proficiency are awarded in each course to those who complete that course satisfactorily. The school opens the second week in October and is in operation 24 weeks, closing Thursday and Friday evenings of Thanksgiving week and during the vacation of the Christmas holiday season. The school hours are from 7.15 P.M. to 9.15 P.M.

Tuition in all the evening art classes and in the practical classes in domestic science, sewing, and home decoration is free to all persons over fourteen years of age who are residents of Springfield, but a fee of \$2.50 for materials and other incidental expenses is charged each member of the classes in design and crafts and domestic science; in the classes in sewing and dressmaking this incidental fee is \$2. No incidental fee is charged for the classes in free-hand and model drawing. In addition to these incidental fees non-residents are charged a tuition fee of \$10 for the season of twenty-four weeks.

VOCATIONAL SCHOOL

Organized in Technical High School building, 1908.

In July, 1911, State approval was secured with reimbursement of one half the cost of maintenance and the school was transferred to rented quarters at 36 Taylor street.

Transferred to Pynchon Street School, April, 1914.

TERMS OF ADMISSION.

This school is designed for boys over fourteen years of age, enrolled in the junior high grades.

Tuition for non-residents at this school is \$120 per year, payable in advance.

LIST OF TEXT BOOKS

AUTHORIZED FOR USE IN THE PUBLIC SCHOOLS.

ELEMENTARY SCHOOLS.

READING.

GENERAL LITERATURE.

AUTHOR.	TITLE.	GRADE.
Æsop	Fables (Stickney)	I
Andersen	Fairy Tales	V
Andrews	Ten Boys on the Road from Long Ago	VI
Baldwin	Fairy Stories and Fables	III
Baldwin	Fifty Famous Stories	III
Baldwin	Old Greek Stories	IV
Beckwith	In Mythland, Volume I	II
Beckwith	In Mythland, Volume II	III
Bellamy	Wonder Children	IV
Blaisdell	Boy Blue and his Friends	II
Blaisdell	Child Life Reader, Book I	I
Blaisdell	Child Life Reader, Book II	II
Blaisdell	Child Life Reader, Book III	III
Bryce	Child-Lore Dramatic Reader	II
Burgess	Old Mother West Wind	III
Carroll	Alice's Adventures in Wonderland	V
Carroll & Brooks	Fifth Reader	V
Chambers	Hide and Seek in Forest Land	III, IV
Cook	Story of Ulysses	V
Cyr	Primer	I
Defoe	Robinson Crusoe (Lambert)	VI
Edson-Laing	Reader, Book I	I
Edson-Laing	Reader, Book II	II
Free & Treadwell	The Primer	I
Ghosh	Wonders of the Jungle	IV
Hawthorne	Wonder Book	VI
Holbrook	Hiawatha Primer	II
Howe	Third Reader	III
Jones	Third Reader	III
Kingsley	Water Babies	V
London	Call of the Wild	VI
Longfellow	Hiawatha	VI
Mace	Lincoln, the Man of the People	VI
Mace	Washington, a Virginia Cavalier	VI
Matthews	Poems of American Patriotism	VI
Noyes & Guild	Sunshine Primer	I
Osgood	Folklore Primer	I
Osgood	Sunbonnet Babies Primer	I
Perkins	The Dutch Twins	III
Perkins	The Dutch Twins Primer	I, II

AUTHOR.	TITLE.	GRADE.
Powers & Balliet	Reader, Book I	I
Powers & Balliet	Reader, Book II	II
Powers & Balliet	Reader, Book III	III
Powers & Balliet	Reader, Book IV	IV
Powers & Balliet	Reader, Book V	V, VI
Pyle	Adventures of Robin Hood	VI
Rice & Ketchum	Our Story Reader	I
Serl	Work-a-day Doings	I
Serl	Work-a-day Doings on the Farm	I
Seton	Wild Animal Ways	VI
Smythe	Reynard the Fox	II
Stevenson	Children's Classics in Dramatic Form	IV
Stockton	Fanciful Tales	V
Swift	Gulliver's Travels	VI
Tappan	The Farmer and his Friends	VI
Thompson	For Childhood Days	I
Van Dyke	The Van Dyke Book (Stories and Poems)	VI
Werthner	How Man Makes Markets	VI
Wiggin	Polly Oliver's Problem	VI
Wiltse	Folklore Stories and Proverbs	II
Wyss	Swiss Family Robinson (Stickney)	VI

GEOGRAPHICAL.

Andrews	Each and All	V
Andrews	Seven Little Sisters	IV
Carpenter	Geographical Reader, North America	VI
Carroll	Around the World, Book 1	II
Carroll	Around the World, Book 2	III
Carroll	Around the World, Book 3	IV
Humphrey	Little Folks of Other Lands	II
Kirby	Aunt Martha's Corner Cupboard	IV
Muir	Stickeen	V
Schwatka	Children of the Cold	V
Shaw	Big People and Little People of Other Lands	III

HISTORICAL.

Eggleston	Stories of Great Americans	IV
Ellson & Macmullan	Story of Our Country	IV
Pratt	Legends of the Red Children	VI
Smythe	Old Time Stories	II
Tanner	Legends from the Red Man's Forest	V

ELEMENTARY SCIENCE.

Cooke	Nature Myths	III
Long	Ways of Wood Folk	V

LANGUAGE.

Chancellor	Graded City Speller, Fifth Year	V
Chancellor	Graded City Speller, Sixth Year	VI

ARITHMETIC.

AUTHOR.	TITLE.	GRADE.
Hoyt & Peet	Everyday Arithmetic, Book I	III, IV
Hoyt & Peet	Everyday Arithmetic, Book II	V, VI
Nichols	New Graded Lessons in Arith., Book I	II
Nichols	New Graded Lessons in Arith., Book II	III
Nichols	New Graded Lessons in Arith., Book III	IV
Nichols	New Graded Lessons in Arith., Book IV	V
Nichols	New Graded Lessons in Arith., Book V	VI

GEOGRAPHY.

Tarr & McMurry	New Geography, First Book, Part I	IV
Tarr & McMurry	New Geography, First Book, Part II	V
Tarr & McMurry	New Geography, Second Book, Part I	VI

HISTORY.

Gordy	American Leaders and Heroes	V
Gordy	American Beginnings in Europe	VI

PHYSIOLOGY.

O'Shea & Kellogg	Health Habits	VI
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MUSIC.

Aitken	Two Part Exercises	IV
Congdon	Music Primer	III
Dann	First Year Music	I
Dann	Second Year Music	II
Dann	Third Year Music	III
Dann	Fourth Year Music	IV
Silver, Burdett Co.	Progressive Music Reader, Book I	I, II
Silver, Burdett Co.	Progressive Music Reader, Book II	III, IV
Zuchtman	New American Music Reader, Book II	III, IV
Zuchtman	New American Music Reader, Book III	V, VI

PENMANSHIP.

Houston	Writing Lessons	I-IV
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DICTIONARY.

Webster	Shorter School Dictionary	IV-VI
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JUNIOR HIGH SCHOOLS.**ENGLISH**

AUTHOR.	TITLE.	JUNIOR HIGH.
Aldrich	Story of a Bad Boy	I
de Amicis	The Heart of a Boy	I
Antin	At School in the Promised Land	II
Arnold	{Sohrab and Rustum} {Ancient Mariner}	III
Baker	Children's Third Book of Poetry	I
Bemis, Holz & Smith	Patriotic Reader	II
Browning	Cavalier Tunes	III
Bryant	Iliad	III
Bryant	Odyssey	III
Carpenter	Geographical Reader, Europe	I
Carpenter	Geographical Reader, Asia	I
Clemens	Travels in History	I
Clemens	Travels at Home	I
Coe	Heroes of Everyday Life	I
Cooper	The Spy	I
Dickens	Christmas Carol, etc.	I
Dickens	Tale of Two Cities	III
Emerson & Bender	English Spoken and Written, Book II	II
Grenfell	Adrift on an Ice Pan	I
Hale	Man Without a Country	II
Hawthorne	Grandfather's Chair	I
Hawthorne	Tanglewood Tales	I
Hayward	Money, What It is and How to Use It	II
Homer	Odyssey	III
Howells	Boy Life	I
Hughes	Tom Brown's School Days	III
Kipling	Captains Courageous	I
Kipling	Kipling Stories and Poems Every Child Should Know	I
Longfellow	Tales of a Wayside Inn	II
Longfellow	Selections	I
Martineau	Peasant and Prince	II
McMurry	William Tell Dramatic Reader	I
Repplier	A Book of Famous Verse	II
Scott	Ivanhoe	II
Scott	Kenilworth	II
Scott	Lady of the Lake	III
Scott	Lay of the Last Minstrel	II
Scott	Marmion	II
Scott	The Talieman	II
Scribner's	Stories from American Authors	II
Shakespeare	Julius Caesar	II
Shakespeare	The Merchant of Venice	III
Shakespeare	Midsummer Night's Dream	III
Stevenson	Kidnapped	II
Stevenson	Treasure Island	I
Sykes	English Composition for Grammar Grades	III
Tappan	Diggers in the Earth	I
Tappan	Makers of Many Things	I
Tappan	Travelers and Traveling	II
Washington	Up from Slavery	II

AUTHOR.	TITLE.	JUNIOR HIGH.
Webster	English for Business	III
Webster	Shorter School Dictionary	I-III
Whittier	Snowbound	I
Wilson & Winship	The Merrill Speller, Book II	I-III

MATHEMATICS.

Atwood	Exercises in Algebra	III
Hoyt & Peet	Everyday Arithmetic, Book III	I-III
Meservey	Bookkeeping	II
Nichols	New Graded Lessons in Arithmetic, Book VI	I
Spencer	Inventional Geometry	II
VanTuyt	Essentials of Business Arithmetic	III
Wells & Hart	First Year Algebra	II
Wells & Hart	New High School Algebra	III

GEOGRAPHY.

Dryer	Elementary Economic Geography	II
Morton	Advanced Geography	I

PHYSIOLOGY.

O'Shea & Kellogg	Making the Most of Life	I
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HISTORY.

Fiske	War of Independence	I
Gibson	Chart History of the Civil War	I
Gordy	History of the United States	I-II
Scudder	George Washington	I
Tappan	England's Story	I

FRENCH.

Chapuzet & Daniels	Mes Premiers Pas en Français	II-III
Gay	Chansons, Poésies et Jeux Français	III
Meras	Le Premier Livre	III

GERMAN.

Bagster-Collins	First Book in German	II
Fick	Dies und Das	II-III
Gerstacher	Germelshausen	III
Gronow	Für Kleine Leute	II
Müller & Wenckebach	Glück Auf	II-III
Walter & Krause	Beginners' German	II

LATIN.

Smith	Latin Lessons	II-III
Smith	Supplement to Smith's Latin Lessons	II-III

AUTHOR.	MUSIC.	JUNIOR HIGH.
Armitage	Laurel Junior Songs	
Armitage	Laurel Songs	
Armitage	Laurel Unison Book	
Dann	Junior Songs	
Farnsworth	Grammar School Songs	
Giddings & Newton	Junior Song and Chorus Book	
Tomlins	Laurel Music Reader	
Tomlins	Laurel Unison Book for Girls	
Tomlins	Laurel Unison Book for Boys	
Zuchtman	New American Music Reader, Book IV	

PENMANSHIP.

Zaner	Writing Manual, No. 144	III
Zaner & Blosier Co.	Zaner Method Writing, Compendium	
	No. 4	I
Zaner & Blosier Co.	Zaner Method Writing, Compendium	
	No. 5	II

SENIOR HIGH SCHOOLS.**CLASSICS.**

<i>Text-Books:</i>	Cæsar
Allen & Greenough	Latin Grammar
Allen & Greenough	Cornelius Nepos
Bars	Elementary Greek
Burgess & Bonner	Latin Composition
D'Ooge	Select Orations of Cicero
D'Ooge	Æneid
Fairclough & Brown	Greek Prose Composition
Gleason	Virgil
Greenough & Kittredge	Greek Grammar
Hadley & Allen	Latin Dictionary
Harper	Homer's Iliad (Books I-VI)
Keep	Cæsar, Gallic Wars
Kelsey	Cicero
Kelsey	Ovid
Kelsey	Xenophon's Anabasis
Kirtland	Fabulæ Faciles
Pearson	Essentials of Latin
Ritchie	Fabulæ Faciles
Smith	Latin Lessons

Supplementary Book:
Collar

Gate to Cæsar

ENGLISH.

<i>Text-Books:</i>	Sir Roger de Coverley Papers
Addison	A Brief English Grammar
Alshouse & Root	Modern Prose and Poetry for Secondary
Ashmun	Schools

AUTHOR.	TITLE.
Bouton	Lincoln and Douglas Debate
Brooks	English Composition, Book I, Enlarged
Brooks & Hubbard	Composition Rhetoric
Browning	Shorter Poems
Buehler	Exercises in English
Burke	Speech on Conciliation with America
Burns	Representative Poems with Carlyle's Essay
Canby & Opdycke	Elements of Composition
Carlyle	Essay on Burns
Chew	Practical High School Speller
Coleridge	Ancient Mariner
Cooper	The Last of the Mohicans
De Quincey	English Mail Coach
Eliot	Silas Marner
Emerson	American Scholar
Emerson	Culture, Books, Power
Esenwein	Children's Stories and How to Tell Them
Foster	Essentials of Exposition and Argument
Fuess	Selected English Letters
Genung & Hanson	Outlines of Composition and Rhetoric
Goldsmith	Vicar of Wakefield
Grenfell	Adrift on an Ice Pan
Halleck	History of American Literature
Halleck & Barbour	Readings from Literature
Hart & Perry	Representative Short Stories
Hitchcock	Enlarged Practice Book in English Com- position
Hitchcock	New Practice Book
Hitchcock	Rhetoric and the Study of Literature
Hufford	Selections from the Poetry of Robert Burns
Hughes	Tom Brown's School Days
Husband	America at Work
Kittredge & Arnold	Manual of Composition
Lockwood	The Freshman and his College
Long	American Poems
Long	English Literature
Lowell	Vision of Sir Launfal
Macaulay	Lays of Ancient Rome
Macaulay	Essays on Milton and Addison
Macmillan Co.	An Outline for the Study of American Civil Government
Merrill, C. E. & Co.	Selections from American Poetry
Milton	Shorter Poems
Milton	Paradise Lost
Pace	Readings in American Literature
Palmer	Self-Cultivation in English
Parkman	The Oregon Trail
Pope	Iliad
Pope	Rape of the Lock
Richards	High Tide (selected poems)
Rittenhouse	Little Book of Modern Verse
Sandwick & Bacon	Word Book
Schultze & Joyce	Modern Essays
Scott & Denney	Composition-Rhetoric
Simonds	Student's History of English Literature

AUTHOR.	TITLE.
Stevenson	Kidnapped
Tanner	Essays and Essay Writing
Tennyson	Idylls of the King
Tennyson	The Princess
Thompson	British Verse
Towne	Social Problems
Webster	Bunker Hill Oration
Webster	English for Business
Wiggin	Golden Numbers
Williams	Choice Literature, Book VII
Winchester	Book of English Essays
Woolley	Handbook for Composition
Wordsworth	Shorter Poems

Supplementary Books:

Aldrich	Story of a Bad Boy
Arnold	Sohrab and Rustum
Blackmore	Lorna Doone
Brewer	Oral English
Browning	Lady Geraldine, Selected Poems
Bryant	Selections
Bryce	Selected Essays
Byron	Childe Harold
Carlyle	Heroes and Hero Worship
Chaucer	Prologue to Canterbury Tales
De Quincey	Joan of Arc
Dickens	A Tale of Two Cities
Eliot	Education for Efficiency
Ewing	Jackanapes
Foerster & Pierson	American Ideals
Franklin	Autobiography
Gardiner, Kittredge & Arnold	Composition and Rhetoric
Gaskell	Cranford
Gayley	Classic Myths
Gayley & Flaherty	Poetry of the People
George	From Chaucer to Arnold
Goldsmith	She Stoops to Conquer
Goldsmith	Deserted Village
Guerber	Myths of Greece and Rome
Hale	Man Without a Country
Harte	Selected Short Stories
Hawthorne	Twice Told Tales
Hawthorne	House of Seven Gables
Holmes	Selections from Breakfast Table Series
Hotchkiss & Drew	Business English
Houghton, Mifflin Co.	Children's Hour
Howells	Rise of Silas Lapham
Irving	Life of Oliver Goldsmith
Irving	Alhambra
Irving	Selections from Sketch Book
Jewett	Night before Thanksgiving
Keller	The Story of My Life
Lamb	Essays from Elia
Lamb	Tales of Shakespeare
Lockwood & Emerson	Composition and Rhetoric

AUTHOR.	TITLE.
Long	History of English Literature
Macaulay	Essay on Warren Hastings
Macaulay	Essays on Addison and Johnson
Macaulay	On Life of Samuel Johnson
Mallory	King Arthur Stories
Merrill, C. E. & Co.	Selected Short Stories
Nettleton	Old Testament Stories
Palgrave	Golden Treasury
Poe	Poems and Tales
Ruskin	Selected Essays and Letters
Ruskin	Sesame and Lilies
Schurz	Abraham Lincoln
Scott	Quentin Durward
Scott	Woodstock
Scott, Foresman & Co.	Types of the Short Story
Shakespeare	A Midsummer Night's Dream (Rolfe)
Shakespeare	As You Like It (Longmann)
Shakespeare	Hamlet (Rolfe)
Shakespeare	Julius Cæsar (Rolfe)
Shakespeare	King John (Rolfe)
Shakespeare	King Henry IV (Part I) (Rolfe)
Shakespeare	King Henry IV (Part II) (Rolfe)
Shakespeare	King Henry V (Rolfe)
Shakespeare	King Lear (Rolfe)
Shakespeare	King Richard II (Rolfe)
Shakespeare	King Richard III (Rolfe)
Shakespeare	Macbeth (Rolfe)
Shakespeare	Merchant of Venice (Rolfe)
Shakespeare	Othello (Rolfe)
Shakespeare	Romeo and Juliet
Shakespeare	Tempest (Rolfe)
Shakespeare	Twelfth Night (Rolfe)
Shelley & Keats	Selections
Sheridan	Rivals
Sherman	Short Stories
Simonds	American Literature (Student's History of)
Stedman	American Anthology
Stevenson	Travels with a Donkey and Inland Voyage
Stevenson	Treasure Island
Taylor	Lars
Tennyson	Shorter Poems
Thackeray	The Newcomes
Warner	In the Wilderness
Washington	Farewell Address
Webster	Secondary Dictionary
Whittier	Snowbound, Among the Hills, Songs of Labor

FRENCH.

Text-Books:

About	Le Roi des Montagnes
Bacon	New French Course
Bacon	Une Semaine à Paris
Barin	Contes Choisis
Barin	Le Blé qui Lève

AUTHOR.	TITLE.
Bierman & Frank	Conversational French Reader
Bounet	French Syntax and Composition
Bowen, ed.	Modern French Lyrics
Bruce	Dictées Françaises
Bruce	Grammaire Française
Bruno	Le Tour de la France
Cameron	French Prose Composition
Chardenal	Complete French Course
Cherbulier	Le Comte Kostia
Comfort	French Composition
Constanseau	French Dictionary
Corneille	Le Cid
Daudet	La Belle Nivernaise
Daudet	Le Petit Chose
Desnoyers	Les Méaventures de Jean-Paul Choppart
Dike	Scientific French Reader
Dumas	La Tulipe Noire
Dumas	Monte Cristo
Enault	Le Chien du Capitaine
Feuillet	Le Roman d'un Jeune Homme Pauvre
Foa	Le Petit Robinson de Paris
François	Advanced French Composition
François	Alternate Exercises for Introductory French Prose Composition
François	Beginner's French
François & Giroud	Introductory French Prose Composition
Fraser & Squair	Simple French
Goodell	Shorter French Course
Grandgent	L'Enfant Espion
Grandgent	Prose Composition, Part I, based on L'Abbé Constantin
Grandgent	Prose Composition, Part IV, based on La Dernière Classe
Guerber	Prose Composition, Part V, based on La Pipe de Jean Bart
Guerber	Contes et Légendes
Halevy	Prisoners of the Temple
Heath	L'Abbé Constantin
Hennequin	French-English and English-French Dic- tionary
Hugo	Lessons in Idiomatic French
Hugo	La Chute
Hugo	Les Misérables
Hugo	Quatre-vingt-treize
Josselyn & Talbot	Elementary Reader of French History
Kimball	Materials for French Composition based on Colomba
La Bedollière	La Mère Michel et Son Chat
Labiche & Martin	La Poudre aux Yeux
Labiche & Martin	Le Voyage de M. Perrichon
La Fontaine	Fables
Lamartine	Jeanne d'Arc
Larousse	Dictionnaire
Larousse	Grammaire Complète
Lemaitre	Contes Extraits de Myrrha

AUTHOR.	TITLE.
Loti	Pêcheur d'Islande
Mairet	La Tâche du Petit Pierre
Malot	Sans Famille
Marique & Gilson	French Sight Reading
Mérimée	Colomba
Molière	L'Avare
Molière	Le Bourgeois Gentilhomme
de Monvert	La Belle France
de Musset	L'Histoire d'un Merle Blanc
Panet	French Syntax and Composition
Pattoi	Causeries en France
Rogers	French Sight Reading
Sand	La Mare au Diable
Sandeau	Mlle. de la Seiglière
Sandeau	Sacs et Parchemins
Sarcey	Le Siège de Paris
Snow & Lebon	Easy French
Souvestre	L'Eclusier
Souvestre	Un Philosophe sous les Toits
Spiers & Surenne	French Dictionary
Super	French Reader
Talbot	French Composition
Theuriet	L'Abbé Daniel
Tuckerman	Simplicité
Verne	Tour du Monde en Quatre-vingts Jours
Worman	Grammaire Française

Supplementary Books:

Ballard	Short Stories for Oral French
Balsac	Le Curé de Tours
Beaumarchais	Le Barbier de Séville
Bercy	Le Français Pratique
Bruce	French Selections for Sight Translation
Coppée	Le Luthier de Crémone et Le Trésor
Dumas	Les Trois Mousquetaires
Duval	Petite Histoire de la Littérature Française \
Eckmann-Chatrian	Le Conscrit de 1813
Fortier	Histoire de France
Fortier	Sept Grands Auteurs
Foncin	Le Pays de France
Kuhn	French Readings for Beginners
Lavisse	La Deuxième Année d'Histoire de France
Legouvé & Labiche	La Cigale chez les Fourmis
Mairet	L'Enfant de la Lune
Mariette	Half Hours of French Translation
de Musset	Trois Comédies
de Ruy, Rachel	Rondes Enfantines
Sand	La Famille de Germandre
Super	Anecdotes Faciles
Syms	Easy French Reader
Syms	Selected Letters of Madame de Sévigné
Syms	Le Chien de Brisquet
Talbot	Le Français et Sa Patrie
Topffer	La Bibliothèque de Mon Oncle
Zola	La Débâcle

Text-Books:

GERMAN.

AUTHOR.	TITLE.
Arnold	Ein Regentag auf dem Lande
Arnold	Fritz auf Ferien -
Bacon	German Composition
Bacon	German Grammar for Beginners
Bagster-Collins	First Year in German
Baumbach	Das Habichtsfraulein
Baumbach	Der Schwiegersohn
Baumbach	Im Zwieliht
Brandt	German Reader
Chamisso	Peter Schlemihl
Chiles	German Prose Composition
Collar	Shorter Eysenbach
Dippold	Scientific German Reader
Erk	Liederschatz
Ernst	Flachsmann als Erzicher
Freytag	Aus dem Staat Freidrichs des Grossen
Freytag	Karl der Grosse
Fulda	Der Talisman
Gerstacker	Germelshausen
Goethe	Dichtung und Wahrheit
Goethe	Hermann und Dorothea
Greenfield	Brief Summary of German Grammar
Guerber	Märchen und Erzählungen
Hatfield	Materials for German Composition, based on Höher als die Kirche
Heath	German Dictionary
Heine	Die Harzreise
Heyse	Er Soll Dein Herr Sein
Heyse	L'Arrabbiata
von Hillern	Höher als die Kirche
Holzwarth	Grüss aus Deutschland
Huss	German Reader
Jagemann	German Prose Composition
Jagemann	German Syntax
Joynes & Wesselhoeft	German Lesson Grammar
Kayser & Monteser	A Brief German Course
Kayser & Monteser	Foundations of German
Kayser & Monteser	German Grammar
Keller	Kleider machen Leute
Klenze	Deutsche Geschichte
Kohlrausch	Das Jahr 1813
Leander	Traumereien
Lessing	Minna von Barnhelm
Moltke	Die Beiden Freunde
Mondan	German Selections for Sight Translations
Muller & Wenckebach	Glück Auf
Münchhausen	Reisen
Otis	Das Lied der Glocke
Pope	German Composition
Riehl	Der Fluch der Schönheit
Schiller	Das Lied der Glocke

AUTHOR.	TITLE.
Schiller	Der Neffe als Onkel
Schiller	Jungfrau von Orleans
Schiller	Thirty Years' War (Book III)
Schiller	Wilhelm Tell
Stolze	Bunte Geschichten
Seidel	Die Monate
Seidel	Leberecht Hühnchen
Spanhoofd	Deutsche Grammatik
Stifter	Das Heidedorf
Storm	Geschichten aus der Tonne
Storm	Immensee
Stroebe und Whitney	Geschichte der Deutschen Literatur
Thomas	German Grammar
Tuckerman	Am Anfang
Vos	Essentials of German
Vos	Materials for German Conversation
Wells	Drei kleine Lustspiele
Wenckebach, ed.	Die Schönsten Deutschen Lieder
Whitney & Stroebe	Easy German Composition
von Wildenbruch	Das Edle Blut

Supplementary Books:

Auerbach	Brigitta
Bacon	Im Vaterland
Benedix	Nein
Bernhardt	Novelletten Bibliothek
Bernhardt	Stille Wasser
Bierwirth	Words of Frequent Occurrence
Ebner-Eschenbach	Krambambuli
Freytag	Aus dem Jahrhundert des GrossenKrieges
Fronmel	Eingeschnit
Gore	German Science Reader
Groller	Inkognito
Heyse	Anfang und Ende
Heyse	Das Mädchen von Treppi
Keller	Bilder aus der Deutschen Literatur
Lessing	Nathan der Weise
Meissner	Aus Meiner Welt
Moser	Der Bibliotekar
Moser	Willkommen in Deutschland
Riehl	Burg Neideck
Spyri	Rosenresli (ed. Boll)
Sudermann	Teja
Zschokke	Der zerbrochene Krug

SPANISH.

Coester	A Spanish Grammar
Cool	Spanish Composition
Crawford	Spanish Composition
Des Garennes	Introduction a la Lengua Castellana
Dorado	Espana Pintoresca
Harrison	Spanish Commercial Reader
Hills	Spanish Tales for Beginners

AUTHOR.	TITLE.
Howland	Zaragueta
McKay	Spanish, Commercial and Professional
Roeseler & Remy	First Spanish Reader
Supple	Spanish Reader of South American History
Velasquez	English-Spanish Dictionary

HISTORY.

Text-Books:

Andrews	A History of England
Ashley	American Government
Ashley	Medieval Civilization
Botsford	A History of Greece
Botsford	A History of Rome
Botsford	History of Ancient World
Breasted	Ancient Times,—A History of the Early World
Bryce	American Commonwealth
Channing	Student's History of the United States
Cheyney	History of England
Emerton	Introduction to the Middle Ages
Forman	Advanced American History
Guitteau	Government and Politics in the U. S.
Hazen	Modern European History
McLaughlin	American Nation
McLaughlin & Hart	Encyclopedia of American Government
Monro	Middle Ages
Moore	Industrial History of the American People
Mussey	American History
Myers	Ancient History
Myers	General History
Myers	Greece
Myers	Middle Ages
Myers	Modern Age
Myers	Rome; Its Rise and Fall
Nida	State and Nation
Oman	A History of Greece
Robinson	Medieval and Modern Times
Robinson & Beard	Development of Modern Europe
Robinson & Beard	Outlines of European History, Part II
Robinson & Breasted	Outlines of European History, Part I
Smith	Commerce and Industry
Webster	Ancient History
West	Modern History
West	Modern World
Westerman	Story of the Ancient Nations
Woodburn & Moran	American History and Government
Wrong	History of the British Nation

Supplementary Books:

Church	Greek Life and Story
Church	Stories from Herodotus
Church	Stories of the Persian Wars
Dayis	Readings in Ancient History, Vols. I and II

AUTHOR.	TITLE.
Fiske	Civil Government in the United States
Goodspeed	History of the Ancient World
Hart	Source Book of American History
James & Sanford	Government in State and Nation
Larned	History of England
Mackenzie	The Nineteenth Century
Montgomery	Leading Facts of French History
Montgomery	Leading Facts in English History
Myers	Mediæval and Modern History
Schurz	Abraham Lincoln
Sheldon	General History
Webster	History of Commerce
Wilson	The State
Witt	Retreat of the Ten Thousand
Wright	Industrial Evolution of the United States
Wrong	History of the British Nation
	Municipal Register of Springfield

MATHEMATICS.

Text-Books:

Atwood	Exercises in Algebra
Collins	Practical Algebra, First Year Course
Hawkes	Advanced Algebra
Jameson	Elementary Practical Mechanics
McCurdy	Exercise Book in Algebra
Merriman	Strength of Materials
Phillips & Strong	Elements of Trigonometry
Rivenburg	A Review of Algebra
Robbins and Somerville	Exercises in Algebra
Schultze & Sevenoak	Plane Geometry
Stone & Millis	Elementary Algebra
Wells	Algebra for Secondary Schools
Wells	New Higher Algebra
Wells	Plane Trigonometry with Tables
Wells & Hart	First Year Algebra
Wells & Hart	New High School Algebra
Wentworth	Elements of Algebra
Wentworth	Plane and Solid Geometry
Wentworth & Smith	Plane Geometry
Wentworth & Smith	Solid Geometry

Supplementary Books:

Bailey & Woods	Analytic Geometry
Crawley	Table of Logarithms
Fine	College Algebra
Holton	Shop Mathematics
Longmans	School Mensuration
Sheperd	Problems in Strength of Materials
Wentworth	College Algebra
Wentworth	Plane Trigonometry
Wiley	Elementary Mechanics

Text-Books:

AUTHOR.	TITLE.
Adams	First Course in Physics
Allyn	Elementary Applied Chemistry
Atkinson	Lessons in Botany
Bergen & Davis	Laboratory and Field Manual of Botany
Black & Davis	Practical Physics
Brownlee	First Principles of Chemistry
Butler	Household Physics
Carhart & Chute	High School Physics
Colton	Briefer Course in Physiology
Comstock	Astronomy
Dryer	Physical Geography
Elhuff	General Science, First Course
Fairbanks	Physiography
Hessler	First Year Science
Hough & Sedgwick	Elements of Hygiene and Sanitation
Irish	Qualitative Analysis
Jackson	An Elementary Book on Electricity and Magnetism
Kinne & Cooley	Foods and Household Management
Kinne & Cooley	Shelter and Clothing
Miller	Progressive Problems in Physics
Morgan and Lyman	Chemistry
Newell	Descriptive Chemistry
Newell	Experimental Chemistry
Newell	General Chemistry
Norton	Food and Dietetics
Osterhout	Experiments with Plants
Packard	Everyday Physics
Peabody	Studies in Physiology
Remsen	Elements of Chemistry
Remsen	Briefer Course
Sheaffer	Household Accounting
Smith	Elementary Chemistry
Smith	General Chemistry for Colleges
Tarr	New Physical Geography

Supplementary Books:

Bailey	Sanitary and Applied Chemistry
Chittenden	Nutrition of Man
Conn	Bacteria, Yeasts, and Molds in the Home
Cotton	Care of Children
Coulter	Plant Relations
Coulter	Plant Structures
Gray	Botany
Hortvet	Elementary Practical Physics
Howell	Text-Book of Physiology
Lusk	Science of Nutrition
Martin	The Human Body
Milliken & Gale	First Course in Physics
Olsen	Pure Foods
Richards	Chemistry of Cooking and Cleaning
Sherman	Chemistry of Food and Nutrition
Walters	Physiology and Hygiene

MECHANICAL DRAWING.

Text-Books:

AUTHOR.
Anthony & Ashley
Hoffman

TITLE.
Descriptive Geometry
Elementary Machine Design

MUSIC.

Birchard	55 Songs for Community Singing
Birchard	School Song Book
Birchard	Standard Songs No. 7
Dann	School Hymnal
McConathy	The School Song Book
Tomlins	The Laurel Song Book

COMMERCIAL.

Text-Books:

Adams	Commercial Geography
Belding	Commercial Correspondence
Bennett	Bookkeeping and Accounting Exercises, Part I
Bennett	Bookkeeping and Accounting Exercises, Part II
Bullock	Introduction to Study of Economics
Cahill & Ruggeri	Office Practice
Coman	Industrial History of United States
Cutler & Sorrelle	Rational Typewriting
Eldridge	Business Speller
Eldridge	Shorthand Dictation Exercises
Ellis	Practical Bookkeeping
Fritze-Eldridge	Expert Typewriting
Gano	Commercial Law
Gilbert & Brigham	Introduction to Physical Geography
Herrick	History of Commerce
Kennard	Department Store Merchandise Manuals
Klein	Elements of Accounting
Pitman	Course in Isaac Pitman Shorthand
Pitman	Progressive Dictator
Pitman	Selections from American Authors
Postes	Complete Atlas of the World
Redway	Commercial Geography
Smith	Commerce and Industry
Van Tuyl	Complete Business Arithmetic
Van Tuyl	Essentials of Business Arithmetic
Webster	General History of Commerce
Williams & Rogers	Bookkeeping and Business Practice
Zaner & Bloser	Arm Movement Writing Manual No. 144

Supplementary Books:

Fieid	Retail Buying
Green	History of Springfield
Opdycke & Drew	Commercial Letters
Smith	Proof Reading and Punctuation
Thurston	Economics and Industrial History
Webster	Little Gem Dictionary

JUNIOR COLLEGE.**CLASSICS.***Text-Books:*

AUTHOR.
 Allen & Greenough
 Burgess & Bonner
 Burton
 Gleason
 Hadley & Allen
 Kelsey
 Lewis
 Shorey & Laing

TITLE.

Latin Grammar
 Elementary Greek
 Selections from Livy
 Greek Prose Composition
 Greek Grammar
 Xenophon's Anabasis
 Elementary Latin Dictionary
 Horace

ENGLISH

Hersey & Greenough
 Rice

English Composition
 College and the Future

FRENCH

Corneille
 France
 Fraser & Squair
 Gautier
 Hugo
 Molière
 Musset
 Racine
 Schinz

Le Cid
 Le Crime de Sylvestre Bonnard
 French Grammar
 Jettatura
 Poems (Schinz edition)
 Le Tartuffe
 Trois Comedies
 Athalie
 Seventeenth Century French Readings

Supplementary Books:

Corneille
 Corneille
 Corneille
 Doumic
 Fortier
 LaFayette
 Molière
 Racine
 Racine

Horace
 Le Cid
 Polyeucte
 Histoire de la Littérature Française
 Histoire de France
 La Princesse de Cleves
 Les Précieuses Ridicules
 Andromaque
 Britannicus

Text-Books:

Bernstorff
 Boezinger
 Fulda
 Goethe
 Hauff
 Hebble
 Klenze
 Meyer

GERMAN.

Handbook of German Composition
 Zweites Aufsatzbuch
 Das verlorene Paradise
 Egmont
 Lichenstein
 Agnes Bernauer
 Deutsche Gedichte
 Der Schuss von der Kanzel

AUTHOR.	TITLE.
Raabe	Elsa von der Tanne
Raabe	Eulenspfigsten
Schiller	Maria Stuart
Schiller	Wallenstein
Sudermann	Der Katzensteg

Supplementary Books:

Boezinger	Mundliche und schriftliche Uebungen
Goethe	Iphigenie auf Taurus
Heyse	Das Madchen von Treppi
Keller	Kleider machen Leute
Morgan	Elementary German Syntax
Sudermann	Frau Sorge
von Wildernbruch	Lachendes Land

Text-Books:

Hazen	Modern European History
Robinson	History of Western Europe

HISTORY.

MATHEMATICS.

Phillips & Strong	Plane Trigonometry
Wells	Plane Trigonometry
Wentworth & Smith	Solid Geometry

SCIENCE.

Milliken & Gale	A First Course in Physics
<i>Supplementary:</i>	
Kimball	College Physics

EVENING HIGH SCHOOL.

MATHEMATICS.

Text-Books:

AUTHOR.	TITLE.
Ellis	Practical Bookkeeping
Hoyt & Peet	Everyday Arithmetic, Book III
Kester	Accounting, Theory and Practice
Moore	New Commercial Arithmetic
Moore & Miner	Concise Business Arithmetic
Nichols	Arithmetical Problems
Nichols	Graded Lessons in Arithmetic, Book IV
Schultz	Elements of Algebra
Wells	Higher Algebra
Wentworth	Grammar School Arithmetic
Wentworth	New Plane and Solid Geometry

SCIENCE.

AUTHOR.	TITLE.
Allen	Elementary Applied Chemistry
Carhart & Chute	First Principles of Physics
Carhart & Chute	High School Physics
Irish	Qualitative Analysis for Secondary Schools
Remsen	Chemistry
Remsen	Laboratory Manual
Williams	Essentials of Chemistry

GERMAN.

Bagster-Collins	First Book in German
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FRENCH.

Bacon	Une Semaine à Paris
Ballard	Short Stories for Oral French
Bierman & Frank	Conversational French Reader
Comfort	French Prose Composition
François	Introductory French Prose Composition
Fraser & Squair	Shorter French Course
Grandgent	French Composition
Guerber	Contes et Légendes
Halévy	L'Abbé Constantin
Mérimé	Colomba
Syms	Easy French Reader
Talbot	Le Français et sa Patrie
Tuckerman	Simplicité

SPANISH.

Isaacs	Maria
Legundo	El Lector Americano
Morse	Spanish-American Life
Worman	First Year Spanish

ENGLISH.

Aldrich	Story of a Bad Boy
Burt & Cable	Don Quixote
Chancellor	Standard Short Course
Dickens	Tale of Two Cities
Dickens	Little Nell
Eliot	Silas Marner
Goldsmith	The Deserted Village
Goldsmith	Plays of Oliver Goldsmith
Hitchcock	New Practice Book
Holmes	From the Breakfast Table Series
Holmes	Grandmother's Story
Hotchkiss & Drew	Business English
Irving	Sketch Book

AUTHOR.	TITLE.
Johnson	Arabian Nights
Lockwood & Emerson	Composition and Rhetoric
Longfellow	Evangeline, etc.
Longfellow	Tales of a Wayside Inn
Lowell	Vision of Sir Launfal
Poe	Poems and Tales
Pyle	Robin Hood
Scott	Ivanhoe
Scott	Quentin Durward
Shakespeare	Macbeth
Shakespeare	Merchant of Venice
Stevenson	Treasure Island
Sykes	English Composition for Grammar Schools
Tennyson	The Princess
Wallach	Secondary Book in English for Foreigners
Webster	English for Business
Webster	Shorter School Dictionary
Whittier	Snowbound, Tent on the Beach, and Favorite Poems
Williams	Choice Literature
Wood	Practical Grammar and Composition

HISTORY.

Gordy	History of the United States
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GEOGRAPHY.

Carpenter	Geographical Reader—North America
Morton	Advanced Geography

COMMERCIAL LAW.

Gano	Commercial Law
Guiteau	Government and Politics in the United States

STENOGRAPHY.

Pitman	Progressive Dictator
Pitman	Brief Course in Isaac Pitman Shorthand

ELEMENTARY EVENING SCHOOLS.

Any day-school book may be used and, in addition, the following:

Alexander	Spelling Book
Bryce	Folk-lore from Foreign Lands
Chancellor	Standard Short Course for Evening Schools
Cowles	Robinson Crusoe Reader
Field and Coveney	English for New Americans
Mints	New American Citizen
O'Brien	English for Foreigners
Ryan & Prior	How to Learn English
White	Intermediate Arithmetic
Wood	Practical Grammar and Composition

LOCATION OF PUBLIC SCHOOLS

WITH THE AREA OF THEIR LOTS AND THE TERRITORIAL BOUNDARIES OF
THE DISTRICTS.

CENTRAL HIGH SCHOOL.—On the south side of State street, between School and Maple streets. Area of lot, 79,874 square feet.

District: The whole city.

HIGH SCHOOL OF COMMERCE.—State street, opposite U. S. Armory. Area of lot, 129,480 square feet.

District: The whole city.

TECHNICAL HIGH SCHOOL.—On the east side of Elliott street. Area of lot, 66,785 square feet.

District: The whole city.

VOCATIONAL SCHOOL.—62 Pyncheon street. Area of lot, 14,013 square feet.

District: The whole city.

ACUSHNET AVENUE ELEMENTARY SCHOOL.—On the east side of Main street, corner of Acushnet avenue. Area of lot, 33,680 square feet.

For grades I to III this district is bounded on the north by Loring and Central streets (not including them); on the east by the Central street district; on the south by Nos. 49 and 50 on Long Hill street and 1189 on Main street.

For grades IV. and V., the northern boundary of this district is Fremont and Central streets (including them); on the east and south the same as for primary grades.

ALDEN STREET ELEMENTARY SCHOOL.—Alden street, near the junction of Walnut and Hancock streets. Area of lot, 19,765 square feet.

This district extends from the junction of Hancock and Central streets along Hancock to Florence street; along Florence (not including it) to Pine; Pine to Cedar; along Cedar, James, and King streets to Nelson

street; along Nelson and Greene streets (not including these two streets) to Eastern avenue; along Eastern avenue (not including it) to Manhattan street; along Manhattan street (not including it) to Walnut street; along Walnut to Hickory, and along Hickory to the junction of Hancock and Central streets.

Pupils living on Alden street east of Nos. 78 and 85 attend the Eastern avenue school.

ARMORY STREET ELEMENTARY SCHOOL.—On the west side of Armory street a short distance north of its junction with Liberty street. Area of lot, 56,700 square feet.

This district is bounded on the south by the Boston and Albany Railroad; on the west by Webster, Franklin, and Cass streets (not including them); on the east by Kendall avenue, Penacock avenue, and St. Lawrence avenue (not including them). No northern boundary is fixed for this district.

BARROWS ELEMENTARY SCHOOL.—On the southeast corner of Oak and Tyler streets, near the junction of Oak and Walnut streets. Area of lot, 37,498 square feet.

This district extends from the Boston and Albany railroad southerly along Federal and Walnut streets to Pine; along Pine street to Ashley; Ashley (not including it) to Hancock; along Alden street (not including it) to the New England railroad; along the New England railroad to Tyler street, and along Tyler to Hancock; along Hancock to State; through the middle of State street to Magazine street; along Magazine and Armory streets to the Boston and Albany railroad (including Armory street court).

The section bounded by Hickory street, Watershops pond, King street, and the New England railroad is also included in this district.

The children of grades I. to V., residing in that part of the Barrows district which is included in the Eastern avenue district, will attend the Eastern avenue school.

The children of grades I. to IV., residing in that part of the Barrows district which is included in the Alden street, Strickland, and East Union street districts, will attend the Alden street, Strickland, and East Union street schools.

BOSTON ROAD ELEMENTARY SCHOOL.—On the north side of Boston road, a little east of Jasper street, about three and one-half miles from Court Square. Area of lot, 22,500 square feet.

This district is bounded on the south by Balis street (including it); on the east by the north branch of Mill river; on the north by a line drawn from the north branch of Mill river, through Arlington avenue (not including it) to Boston road, along Boston road, through Brandon avenue, across the Boston and Albany railroad, along Lake Drive, through Superior street. There is no western boundary fixed.

BRIGHTWOOD ELEMENTARY SCHOOL.—Northeast corner of Plainfield street and Talcott avenue. Area of lot, 32,355 square feet.

The eastern boundary is the Boston and Maine railroad. The southern boundary is West street.

BUCKINGHAM JUNIOR HIGH AND ELEMENTARY SCHOOL.—On the southeast corner of Eastern avenue and Wilbraham road near Winchester Park. Area of lot, 94,570 square feet.

Pupils of grades V. through Junior High, living in the Homer street district, and pupils of Junior High grades, living in the Tapley and Dry Bridge districts, attend Buckingham school.

NOTE.—Pupils in the Tapley district living west of Harvard street and north of St. James avenue may attend the State street school at the option of their parents.

Children of the Barrows district living north of King street (including it) and east of Oak and Walnut streets (not including them) attend the Buckingham school in Junior High grades. Children of grades V. through Junior High, living in the East Union street district north of Tyler street (not including it) and east of Hancock street, attend the Buckingham school.

CAREW STREET ELEMENTARY SCHOOL.—On the south side of Carew street, near Main street. Area of lot, 35,911 square feet.

This district is bounded on the north by Plainfield street, North Main street (numbers south of 69), Morgan street (not including it), Massasoit street (not including it); on the east by Cass street (numbers north of 120); on the south by Linden street (not including it), Essex street (including it), Auburn street (not including it); on the west by Fulton street from No. 127 to the railroad bridge.

CENTRAL STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—Corner of Central and Spruce streets. Area of lot, 55,460 square feet.

This district extends from the U. S. Watershops westerly along Mill river to the junction of Mill and Locust streets; along Mill to Pine street;

thence in a straight line to the junction of Maple and Central; Central to Cedar to Ashley; along Ashley to Alden, and along Alden to Hickory street. This district also includes Madison avenue and Sterns terrace.

Pupils of grades I. to IV., inclusive, residing in that part of the Alden street district which lies within the boundaries of the Central street district, attend the Alden street school.

Pupils of grades I. to V., inclusive, residing in that part of the Eastern avenue district which lies within the boundaries of the Central street district, attend the Eastern avenue school.

Pupils of Junior High grades, residing in that part of the Barrows district bounded by Pine, Walnut, and King streets easterly to Bonnyview avenue, including these streets, attend the Central street school.

CHARLES STREET ELEMENTARY SCHOOL.—On the north side of Franklin street, opposite Charles street. Area of lot, 9,856 square feet.

This district is bounded on the north by Linden street (including it); on the east by Cass street (including it south of Linden), Franklin and Webster streets (including them); on the south by the Boston and Albany railroad; on the west by Chestnut street (including the east side only).

CHESTNUT STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—On the east side of Chestnut street, near Prospect street. Area of lot, 138,794 square feet.

This district includes all the territory in the northern part of the city, the southern boundary being the Boston and Albany railroad.

Pupils of grades VI. and VII. residing in those parts of this district which are included in the Lincoln, Worthington street, and Armory street districts attend the latter schools.

DRY BRIDGE ELEMENTARY SCHOOL.—On St. James circle near St. James avenue. Area of lot, 11,530 square feet.

This district is bounded on the south by the Boston and Albany railroad and on the west by Eddy street (not including it).

EASTERN AVENUE ELEMENTARY SCHOOL.—On the corner of Eastern avenue and Alden street. Area of lot, 27,560 square feet.

This district is bounded on the north by King street, from Nelson street to its easterly terminus; on the west by Nelson street from King to Greene street, thence the boundary line extends along Greene street to Eastern avenue; along Eastern avenue to Manhattan street; along

Manhattan to Walnut; along Walnut to Hickory; along Hickory east to Bonnyview avenue. All the foregoing streets, except Walnut, are included in this district.

EAST MAIN STREET ELEMENTARY SCHOOL.—Main street, Indian Orchard. Area of lot, 30,122 square feet.

This district includes that section of Indian Orchard (for grades I to IV B only) lying east of Cedar street (not including it).

EAST UNION STREET ELEMENTARY SCHOOL.—On the north side of Union street, between Hancock street and Eastern avenue. Area of lot, 24,298 square feet.

This district extends from the New England railroad westerly along Wilbraham road and the middle of State street to Hancock; along Hancock to King street; along King street (not including it) to the railroad; along the railroad to Wilbraham road.

FOREST PARK JUNIOR HIGH SCHOOL.—On Garfield street, off Belmont avenue. Area of lot, 120,118 square feet.

All the children of Junior High grades, living in the Sumner avenue, Kensington avenue, Washington and White street school districts, attend this school.

GLENWOOD ELEMENTARY SCHOOL.—On the north side of Springfield street, near its junction with Armory street, and near the Chicopee line. Area of lot, 43,656 square feet.

HOMER STREET ELEMENTARY SCHOOL.—On Homer street, between State street and Wilbraham road. Area of lot, 53,469 square feet.

This district is bounded on the west and south by the East Union street, Eastern avenue, and Tapley school districts; on the north by the Boston and Albany railroad and the Tapley district; on the east by a line drawn from the Boston and Albany railroad through Balis street (not including it).

HOOVER ELEMENTARY SCHOOL.—70 Franklin street. Area of lot, 55,582 square feet.

This district is bounded on the north by Auburn street (including it), Essex street (not including it); on the west by Chestnut street (including the east side only, numbers south of 372) to Sharon street; on the south by the Boston and Albany railroad; on the west by Fulton street. This

district includes Sharon street to Nos. 135 and 136 (not including them), Ferry street to Nos. 169 and 172, and Liberty street to No. 76 (including them).

Pupils of the Charles street district attend the Hooker School for grades above IVB.

HOWARD STREET ELEMENTARY SCHOOL.—On the south side of Howard street. Area of lot, 71,210 square feet.

This district is bounded on the north by Bridge street (not including it between Main and Chestnut streets): on the east by Chestnut and Maple streets (not including these streets) from Bridge street to Union street; on the south by Union street.

Children of grades VI. and VII. living in the Acushnet avenue school district and children of grades IV. A to VII. living in the William street school district also attend this school.

All the streets mentioned above are included in this district, except when otherwise stated.

Mill street and the easterly half of Central street, between Main and Maple streets, are regarded as belonging to Central street district for those who prefer it on account of its nearness.

JEFFERSON AVENUE ELEMENTARY SCHOOL.—On the south side of Jefferson avenue, corner of North street. Area of lot, 20,003 square feet.

This district is bounded on the north by Sheldon and Calhoun streets, and Chapin terrace (not including them). No eastern boundary is fixed for this district. On the south the district is bounded by Massasoit place (including it), Chestnut street (numbers north of 482, including that number), Ringgold street (not including it), North street (numbers north of 1160, not including it, and 1141, including it), Morgan street (including it); on the west by Plainfield street (not including it), and Birnie avenue (including it).

KENSINGTON AVENUE ELEMENTARY SCHOOL.—On the south side of Kensington avenue, between Earl and Oakland streets. Area of lot, 110,320 square feet.

This district is bounded on the north by Mill river; on the east by White street (not including it), Wareham, Orange, Pasadena, and Pomona streets (not including them); on the south by Grenada terrace and Dickinson street (including them), Belmont avenue (including the north side of it); on the west by Marengo Park and Dickinson street to Mill river.

LIBERTY ELEMENTARY SCHOOL.—On north side of Carew street, between Alvin and Judson streets. Area of lot, 135,000 square feet.

This district is bounded on the north by the Chicopee Falls line, Champlain and Thornfell streets (including them); on the east by Eddy street; on the west by Kendall avenue, Penacock avenue and St. Lawrence avenue (including them); on the south by the Boston and Albany railroad.

LINCOLN ELEMENTARY SCHOOL.—On the west side of Chestnut street, between Harriet and Cumberland streets. Area of lot, 30,713 square feet.

This district is bounded on the west by the Boston and Maine railroad; on the south by Sheldon and Calhoun streets, and Chapin terrace (including them), no boundaries being fixed for the northern and eastern sides of this district.

MYRTLE STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—At the corner of Worcester and Myrtle streets, Indian Orchard. Area of lot, 54,639 square feet.

This district includes Indian Orchard, except that in grades I to IVB inclusive, the section west of Cedar street only is included.

RUSHVILLE PORTABLE ELEMENTARY SCHOOL.—On the south side of Dewey street, near Berkshire avenue. Area of lot, 87,120 square feet.

This district extends on the north from Superior street; along Lake Drive; across the Boston and Albany railroad; along Brandon avenue to Boston road; along Boston road to Arlington avenue; along Arlington avenue (not including it) to north branch of Mill river. The eastern boundary is the north branch of Mill river. The southern boundary is along Morton avenue and Bay street (not including Bay street) to Boston and Albany railroad. There is no western boundary fixed.

SCHOOL STREET ELEMENTARY SCHOOL.—Southeast corner of School and High streets. Area of lot, 86,156 square feet.

This district is bounded on the north by Pearl street (not including it), and by State from Byers street to Walnut street; on the west by Chestnut and Maple streets, from Pearl to Avon place; on the south by Avon place, Mulberry and Union streets to Walnut, and on the east by Walnut street (not including it), including the streets mentioned, except when otherwise stated.

STATE STREET JUNIOR HIGH SCHOOL.—On the south side of State street, west of the Central High school. Area of lot, 30,992 square feet.

This school is for pupils of Junior High grades, residing in that part

of the Barrows district west of Bowdoin street (not including it) and west of and including Oak and Walnut streets to Pine street. It further includes pupils of Junior II and III from the Howard street district, and all Junior High pupils from that part of the Worthington street district south of the railroad.

Pupils of Junior High grades residing in the School street district also attend this school.

Pupils of Junior High grades, living in that part of the Tapley district west of Harvard street and north of St. James avenue, may attend the State street school at the option of their parents.

STRICKLAND ELEMENTARY SCHOOL.—On the southwest corner of Oak and Union streets. Area of lot, 15,753 square feet.

From the Boston and Albany railroad along Armory street to Worthington (including Armory street court); Worthington to Magazine; along Magazine to State; through the middle of State street easterly to Hancock; along Hancock (not including it) to King; along King and James streets (not including these streets) to Cedar; along Cedar (not including it) to Pine; along Pine to Walnut; along Walnut and Federal streets to the Boston and Albany railroad.

SUMNER AVENUE ELEMENTARY SCHOOL.—On the south side of Sumner avenue between Beechwood avenue and Long Hill street. Area of lot, 98,000 square feet.

This district is bounded on the north by Mill river; on the east the line extends along Belmont avenue, including it, from Mill river to Marengo Park, and continues along Belmont avenue to Oakland street (not including this latter section of Belmont avenue) and along Oakland street (not including it); on the south the boundary line is Forest Park and Sumner avenue between Oakland street and Forest Park avenue. In addition, the district shall include Woodside terrace, Leyfred terrace and Bellevue avenue.

TAPLEY ELEMENTARY SCHOOL.—On the southwest corner of Bay and Sherman streets. Area of lot, 92,626 square feet.

This district extends from the Boston and Albany railroad along Bowdoin street to Worthington; along Worthington westerly to Magazine street; along Magazine (not including it) to State; through the middle of State street easterly to the New England railroad; along this railroad to Burr street; Burr to Oak Grove avenue; Oak Grove avenue to Bay;

along Bay street to the Boston and Albany railroad (including Aster, Goldenrod, Arbutus, and Baywood streets); along the Boston and Albany railroad to Bowdoin street.

Children of the Dry Bridge district attend the Tapley school for grades V and VI.

WASHINGTON ELEMENTARY SCHOOL.—On the corner of Woodlawn avenue and Washington street. Area of lot, 87,120 square feet.

This district is bounded on the west by Forest Park and Oakland street; on the north by Belmont avenue (including the south side of the street), Dickinson street and Grenada terrace (not including them), Pomona street (not including it), and Sumner avenue (including the south side of the street). No eastern and southern boundaries are fixed for this district.

WHITE STREET ELEMENTARY SCHOOL.—On the west side of White street between Dawson avenue and Buckler street. Area of lot, 100,000 square feet.

This district is bounded on the west by White, Wareham, Orange, Pasadena, and Pomona streets (including them); on the south by Sumner avenue (including the north side of it). No eastern and northern boundaries are fixed for this district.

WILLIAM STREET ELEMENTARY SCHOOL.—On the south side of William street between Main and Water streets. Area of lot, 35,602 square feet.

This district is bounded on the north by Union street (not including it); on the east by Maple street (not including it); and on the south by Loring and Central streets, including these streets.

WORTHINGTON STREET ELEMENTARY SCHOOL.—On the south side of Worthington street, east of Spring street. Area of lot, 30,756 square feet.

This district includes, north of the Boston and Albany railroad, pupils of grades I to VI, inclusive, living on Sharon street east of Nos. 135 and 136 (including them), on Ferry street east of Nos. 169 and 172 (not including them), and on Liberty street east of No. 76 (not including it), and pupils living on the west side of Chestnut street, south of Sharon street.

On the south side of the Boston and Albany railroad, the boundary line for grades I to VI, inclusive, extends along the Connecticut river to Bridge street to Chestnut, including Bridge street only from Main to

Chestnut; thence along Chestnut to Pearl, along Pearl to Federal, and along Federal to the Boston and Albany railroad, all the streets named being included.

FIVE MILE POND UNGRADED SCHOOL.—At Dimmock's Corner, on the Boston road about five miles from Court Square. Area of lot, 18,887 square feet.

SIXTEEN ACRES UNGRADED SCHOOL.—Near Sixteen Acres pond, and near the junction of North Wilbraham road with the road leading from Ludlow to East Longmeadow, about six miles from Court Square. Area of lot, 15,056 square feet.

STATISTICS OF THE SPRINGFIELD HIGH SCHOOLS. CENTRAL HIGH SCHOOL

YEAR.	Number of Pupils.	Number of Graduates.	YEAR.	Number of Pupils.	Number of Graduates.
1849	158		1884	322	49
1850	170		1885	348	34
1851	185		1886	379	43
1852	169		†1887	372	61
1853	170		1888	370	52
1854	176		1889	344	61
1855	186		1890	345	45
*1856	166	9	1891	391	56
1857	166	14	1892	408	52
1858	172	14	1893	429	53
1859	166	17	§1894	468	53
1860	173	25	1895	433	51
1861	163	13	1896	484	58
1862	177	17	1897	525	86
1863	174	15	1898	569	83
1864	162	5	1899	622	70
1865	146	21	1900	657	124
1866	137	10	1901	704	84
1867	148	12	1902	751	103
1868	195	16	1903	763	111
†1869	217	2	1904	890	120
1870	207	14	1905	975	133
1871	181	19	1906	1002	158
1872	172	24	||1907	730	130
1873	185	21	1908	697	112
1874	201	20	1909	771	132
1875	246	16	1910	767	120
1876	336	33	1911	813	91
1877	354	27	1912	831	118
1878	407	51	1913	813	117
1879	426	54	1914	855	131
1880	405	58	1915	924	126
1881	372	46	1916	971	135
1882	346	44	1917	989	139
1883	322	42	°1918	952	169

TECHNICAL HIGH SCHOOL.

1899	18		1909	928	65
1900	61		1910	1,051	88
1901	77	2	1911	669	60
1902	90	3	1912	791	52
1903	120	16	1913	857	78
1904	162	18	1914	956	93
1905	180	13	1915	1,031	115
1906	223	14	1916	1,068	101
||1907	681	66	1917	1,002	98
1908	787	78	°1918	869	131

HIGH SCHOOL OF COMMERCE.

1911	490	40	1915	841	89
1912	547	69	1916	1,047	124
1913	579	68	1917	1,206	140
1914	688	81	°1918	1,124	143

*Previous to this date there were no graduating exercises.

†The course was changed this year from three to four years.

‡This was the first year that any pupils were graduated in the two years' Business Course.

§The Business Course was abolished after 1894.

||The Commercial Department was transferred from Central High to Technical High in September, 1916.

°There were no entering classes in September, 1917, due to the change in the grading system whereby the senior high course was changed from four years to three years.

EXPENDITURES, SCHOOL POPULATION, AND ENROLLMENT.

From the Organization of the City in 1852.

YEAR.	Current Expenses.	Repairs and Alterations.	New Buildings.	School Census.	Enrollment.	Aver. No. Belonging
1852	\$6,558 89	.....	.....	2,188	2,270	1,549
1853	13,267 31	.....	.....	2,253	2,273	1,642
1854	15,049 89	.....	.....	2,449	2,561	1,621
1855	16,451 22	.....	.....	2,641	2,409	1,769
1856	17,501 08	.....	.....	2,606	2,441	1,815
1857	18,737 67	\$4,146 81	\$6,403 47	2,525	2,459	1,894
1858	18,494 40	3,144 54	671 00	2,675	2,569	1,862
1859	18,315 77	2,939 82	1,553 16	2,505	2,546	1,855
1860	18,115 04	3,532 04	.....	2,472	2,564	1,934
1861	17,961 30	2,966 24	.....	2,688	2,753	1,969
1862	19,358 08	2,601 92	.....	3,090	3,027	2,133
1863	22,361 56	939 55	.....	3,941	3,806	2,342
1864	29,941 54	5,662 30	10,645 00	3,709	3,753	2,298
1865	37,242 93	5,516 10	53,969 78	3,713	3,822	2,490
1866	48,542 28	5,728 90	59,062 72	3,846	3,675	3,187
1867	54,423 56	3,718 32	41,267 84	4,225	3,760	3,266
1868	66,544 60	7,529 04	62,270 59	4,141	4,029	3,304
1869	68,524 83	7,778 57	34,285 49	4,156	4,617	3,509
1870	73,636 97	4,027 70	12,444 67	4,232	4,679	3,823
1871	79,496 26	4,096 28	28,490 00	4,167	4,901	3,717
1872	92,296 88	5,066 27	71,202 63	4,331	4,853	3,674
1873	96,389 77	16,780 80	53,095 62	4,399	5,238	3,900
1874	110,066 43	16,545 76	69,979 01	4,712	5,448	4,071
1875	115,788 04	21,968 95	17,098 73	5,668	5,743	4,296
1876	106,949 96	5,221 48	.....	5,408	5,890	4,481
1877	89,496 74	2,968 91	.....	5,375	5,877	4,615
1878	83,087 62	1,708 02	.....	5,379	5,625	4,398
1879	81,786 65	2,528 04	.....	5,524	5,636	4,475
1880	83,053 74	7,497 14	1,169 69	5,665	5,834	4,538
1881	88,267 73	9,240 86	.....	6,285	5,981	4,667
1882	92,061 29	9,068 23	.....	6,452	6,054	4,727
1883	96,634 26	10,672 68	17,228 99	6,566	6,070	4,661
1884	107,523 96	10,159 73	7,664 96	6,583	5,520	4,327
1885	111,851 90	7,490 23	1,626 17	6,330	5,665	4,517
1886	109,990 53	7,021 26	.....	6,472	5,813	4,648
1887	115,749 63	9,399 94	19,053 56	6,516	5,841	4,643
1888	124,739 06	9,348 20	30,712 40	6,416	5,922	4,647
1889	134,938 12	9,314 65	39,072 98	6,938	6,165	4,963
1890	146,483 62	16,208 53	48,943 67	7,054	6,455	5,180
1891	157,644 68	17,630 70	76,052 19	7,134	7,214	5,128
1892	163,570 40	10,447 98	13,829 18	7,318	7,805	5,585
1893	172,536 48	11,549 10	26,214 01	7,716	8,267	5,799
1894	184,592 41	10,998 75	46,562 87	8,002	8,553	6,340
1895	196,620 30	13,647 77	26,758 82	8,041	8,962	6,661
1896	219,531 84	8,911 17	43,578 11	8,307	9,670	7,074
1897	238,679 72	16,066 06	236,196 30	8,514	9,464	7,869
1898	268,158 05	38,581 39	363,949 04	9,202	10,044	8,260
1899	302,854 35	12,706 09	71,788 62	9,738	10,786	8,072
1900	321,804 66	11,437 20	81,698 41	10,251	11,261	8,366
1901	339,677 59	24,080 85	94,349 94	10,406	11,574	9,612
1902	351,999 63	13,167 60	96,268 07	10,599	12,162	10,206
1903	356,317 47	15,436 28	100,866 33	11,490	12,542	10,390
1904	366,269 63	17,947 82	87,274 88	11,738	12,842	10,818
1905	400,821 81	18,216 94	256,946 06	*13,069	13,161	11,168
1906	434,437 43	20,671 47	149,771 35	*13,359	13,601	11,572
1907	473,330 38	21,562 30	123,727 70	*13,786	13,796	11,516
1908	485,064 25	25,613 77	139,180 18	*14,091	14,451	12,378
1909	509,693 39	26,426 33	46,449 47	*14,336	14,968	12,906
1910	546,894 49	29,136 91	43,141 00	*14,656	15,674	13,024
1911	599,246 97	23,468 83	88,861 00	*15,221	16,074	13,550
1912	640,527 83	35,716 10	42,067 33	*15,915	16,584	13,847
1913	686,066 08	37,072 32	236,401 52	*16,855	17,492	14,563
1914	769,436 30	141,002 78	189,1761 02	*17,480	18,696	15,936
1915	856,279 15	36,979 03	243,441 01	*18,129	19,329	16,632
1916	921,320 24	65,635 85	163,463 98	.....	20,197	17,159
1917	1,038,136 10	57,363 18	362,256 98	*20,018	20,975	17,998
1918	1,187,801 10	47,843 27	340,622 33	*21,434	22,047	18,585

* From five to sixteen years of age.

† Expenditures are for 11 months.

‡ Expenditures are for 13 months, except for teachers' salaries, which are for one year.

SPRINGFIELD PUBLIC SCHOOLS

RATES OF TUITION FOR NON-RESIDENT PUPILS.

DAY SCHOOLS.	Fall Term (16 weeks)	Winter Term (8 weeks)	Spring Term (8 weeks)	Summer Term (8 weeks)	Year
Senior High,.....	\$48.	\$24.	\$24.	\$24.	\$120.
Vocational,.....	48.	24.	24.	24.	120.
Junior High,.....	32.	16.	16.	16.	80.
Grades V and VI,.....	20.	10.	10.	10.	50.
Kindergarten and Grades I-IV,..	12.	6.	6.	6.	30.

EVENING SCHOOLS.

FOR THE SEASON.

High,.....	\$15.
Elementary,.....	\$15.
Trades,.....	\$10 and \$15
Vocational,.....	50c per lesson

Tuition must be paid in advance.

LENGTH OF SERVICE OF MEMBERS

OF THE

SPRINGFIELD SCHOOL COMMITTEE

1852—1918

	Total Years of Service.	
Josiah Hooker	1852-1853 (Chairman) 1856-1867 (Chairman) (Also a member in 1851 and Chairman in 1848, before city was chartered)	16
C. A. Winchester	1852-1854 (Also a member in 1851)	4
A. S. McClean	1852-1854 (Also a member in 1851)	4
George Merriam	1852	1
William P. Bagg	1852	1
Marcellus Pinney	1852 1855 1861-1863 1867-1869	8
Samuel Walker	1852	1
Frederick Holt	1852	1
Alfred Lambert	1853	1
V. L. Owen	1853 1856-1859	5
Jabez C. Terry	1853	1
Henry Pomeroy	1853-1854	2
Harvey E. Moseley	1853 and 1855	2
Horace S. Taylor	1854	1
Samuel McNary	1854 (Also a member in 1847 and 1848)	3
George O. Lombard	1854	1
Frederick Holt	1854	1
Chester R. Chaffee	1855	1
John E. Taylor	1855 (Chairman) 1871-1882 (1874-1882 Chairman)	13
Henry R. Vaille	1855	1
Randolph E. Ladd	1855	1

	Total Years of Service.
Charles P. Bragdon.....1855.....	1
Isaac P. Dickinson.....1855.....	1
William L. Smith.....1856	
(Also a member in 1849 and 1850.....	3
Samuel Osgood.....1856-1862	
(Also a member in 1849 and 1850).....	9
John B. Kirkham.....1856.....	1
Edwin L. Hall.....1856-1860.....	5
John Kimberly.....1856-1860.....	5
Samuel Mills, Jr.....1856.....	1
William G. Breck.....1857-1858.....	2
James E. McIntire.....1857-1864.....	8
Abram Paige.....1857-1858.....	2
E. D. Murphy.....1857-1858.....	2
R. B. Hildreth.....1859-1864.....	6
Charles Marsh.....1859.....	1
Marcus W. Fay.....1859-1863.....	5
Osmond Tiffany.....1860-1861.....	2
Gershom W. Harrison.....1860-1862.....	3
Robert Crossett.....1861-1862.....	2
Francis Tiffany.....1862-1864.....	3
S. G. Buckingham.....1863-1877	
(1872-1873 Chairman).....	15
Horace Kibbe.....1863-1870.....	8
Obadiah Frary.....1863.....	1
J. G. Chase.....1864	
1876-1881.....	7
William W. Gardner.....1864-1866	
1870-1875	
1882-1884.....	12
A. J. Plumer.....1864-1865.....	2
Josiah Marvin.....1865-1867.....	3
William Rice.....1865-1882	
(1869-1871 Chairman).....	18
John L. King.....1865-1872.....	8
John B. Stebbins.....1865-1869.....	5
Hiram Warner.....1866-1869.....	4
Horace J. Chapin.....1868.....	1
J. M. Stebbins.....1868-1873.....	6
Samuel W. Porter.....1869-1877.....	9
Mrs. Randolph E. Ladd...1870.....	1

	Total Years of Service.
Charles J. Goodwin.....1870-1872	
1874-1890.....	20
S. D. Burbank.....1871-1872.....	2
T. M. Brown.....1873-1880.....	8
Stephen Harris.....1875.....	1
A. D. Mayo.....1874-1879.....	5
John Fallon.....1874-1875.....	2
John Giles.....1876-1878.....	3
Sanford Lawton, Jr.....1878-1880.....	3
L. H. Cone.....1878-1880.....	3
A. M. Copeland.....1879-1881.....	3
Joseph C. Pyncheon.....1880-1882.....	3
John R. Smith.....1881-1886.....	6
Cornelius S. Hurlbut.....1881-1889.....	9
O. M. Baker.....1881-1886	
(1883-1886 Vice-Chairman).....	6
James D. Safford.....1882-1889.....	8
Avery J. Smith.....1883-1885.....	3
George H. Bleloch.....1883-1891	
(1887-1889 Vice-Chairman).....	9
Milton Bradley.....1883-1885.....	3
Rawson Hathaway.....1885-1890.....	6
James L. Johnson.....1886-1891.....	6
Edward H. Phelps.....1886-1888.....	3
Adelaide A. Calkins.....1887-1898.....	12
Ellen B. Merriam.....1887-1892.....	6
Harlan P. Stone.....1889-1894	
(1890-1894 Vice-Chairman).....	6
Clark W. Bryan.....1890-1898.....	9
William C. Simons.....1890-1899	
(1895-1899 Vice-Chairman).....	10
Edward O. Robinson.....1891-1892.....	2
Henry K. Wight.....1891-1896.....	6
Elisha B. Maynard.....1892-1897.....	6
(1887-1888 Mayor and Chairman).....	2
Samuel D. Brooks.....1892-1894.....	3
Rachel B. Jacobs.....1893-1904.....	12
William O. Day.....1893-1896.....	3
James G. Dunning.....1895-1897	
1900-1902.....	6

	Total Years of Service.
Adelaide H. Trask 1895-1897	
1899-1904	9
Frank N. Seerley 1897-1911	15
Charles Jacobus 1897-1899	3
Oscar B. Ireland 1898-1903	
(1900-1903 Vice-Chairman)	6
Willard F. Tripp 1898	1
George D. Weston 1898-1909	12
William F. Ray 1899	1
John A. Hall 1899-1901	3
Franklin A. Latimer 1900	1
1915-	
Frederick E. Hopkins 1900-1908	9
Frank H. Goldthwaite } (Mr. Goldthwaite resigned in June, 1901,	
Frederick H. Stebbins } his place being taken by Mr. Stebbins) . . .	1
Edward H. Wilkinson 1902-1912	
(1904-1912 Vice-Chairman)	11
James B. Carroll 1902-1904	3
Francis M. Bennitt 1903-1914	
(1913-1914 Vice-Chairman)	12
James A. Bill, Jr. 1904-1906	3
James S. Judd 1905-1907	3
Leona M. Peirce 1905-1916	12
Mrs. Newton Morgan 1905-1913	9
Wayland V. James 1907-	
(1917 Vice-Chairman)	
William M. Kimball 1908-1910	3
Frederick Harris 1909-1917	
(1915 Vice-Chairman)	9
Irving S. Pulcifer 1910-1912	3
Ralph B. Ober 1911-	
George H. Howard 1912-	
Newton M. Hall 1913-	
(1916 Vice-Chairman)	
Henry L. Hirsch 1913-	
Florence Clark 1914-	
Edward M. Porter 1917-	
George H. Foss 1918-	

The Mayor has been Chairman of the School Committee, ex officio, since 1883:—

H. M. Phillips	1883-1885
Edwin D. Metcalf	1886
Elisha B. Maynard	1887-1888
Edward S. Bradford	1889-1891
Lawson Sibley	1892
Edmund P. Kendrick	1893-1894
Charles L. Long	1895
Newrie D. Winter	1896
Henry S. Dickinson	1897-1898
Dwight O. Gilmore	1899
William P. Hayes	1900-1901
Ralph W. Ellis	1902
Everett E. Stone	1903-1904
Francke W. Dickinson	1905-1906
William E. Sanderson	1907-1909
Edward H. Lathrop	1910-1912
John A. Denison	1913-1914
Frank E. Stacy	1915-1918
Arthur A. Adams	1919-

REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS

SPRINGFIELD, MASS., December 27, 1918.

To His Honor, The Mayor, and the City Council.

GENTLEMEN:—I herewith submit for your consideration the first annual report of the Superintendent of Public Buildings, with an itemized account of the expenditures for the Schools, Municipal Group Buildings, Municipal Heating Plant, Militia Rifle Range, and all other property under the control of the Committee on City Property.

GENERAL ADMINISTRATION.

Superintendent's salary,.....	\$2,754.05
Clerical assistance,.....	2,937.02
Office supplies,.....	51.43
Stamps and stamped envelopes,.....	94.29
Printing and binding,.....	80.38
Telephones and telegrams,.....	22.95
Advertising,.....	23.66
New automobile,.....	1,150.00
Total expenditures,.....	\$7,113.78
Appropriations,.....	\$7,243.65
Expenditures as listed,....	\$7,113.78
Orders outstanding,.....	6.00
	7,119.78
Balance unexpended,.....	\$123.87

SCHOOLS.—OPERATION.

SCHOOL	Care of Buildings and Grounds	Fuel	Light and Power	Miscellaneous Operating Supplies and Expenses	Totals
Acahnnet Avenue,	\$1,570 87	\$977 85	\$210 09	\$24 22	\$2,783 03
Alden Street,.....	910 87	1,530 14	31 80	7 98	4,480 79
Armory Street,.....	2,589 98	2,127 88	178 73	61 12	4,957 68
Barrow,.....	1,378 48	1,039 10	105 62	17 95	2,541 15
Brighton Road,.....	1,902 25	1,574 98	150 92	14 02	4,532 17
Buckingham,.....	2,011 90	2,617 27	140 35	24 34	4,793 86
Buckingham,.....	8,456 90	8,962 03	359 44	97 27	7,875 64
Carew Street,.....	1,684 29	922 85	54 92	31 58	2,643 14
Cardale (unoccupied),.....	81 15				81 15
Central Street,.....	2,867 94	2,574 62	184 97	39 43	5,167 01
Charles Street,.....	907 85	558 25	3 39	17 34	1,486 83
Chestnut Street,.....	5,881 48	6,921 88	828 98	125 84	13,757 88
Dry Bridge,.....	519 65	78 74		45 56	643 95
Eastern Avenue,.....	1,217 65	804 38	399 30	38 25	2,454 53
East Union Street,.....	1,289 07	565 05	135 91	20 18	2,018 13
Emery Street Shop,.....	1,510 55	904 35	97 68	88 21	2,595 79
Five Mile Pond,.....	348 50	85 00		3 80	437 10
Forest Park,.....	2,987 51	2,860 55	248 17	99 61	5,690 84
Glenwood,.....	923 33	377 76	2 52	19 96	1,323 57
High—Central,.....	7,065 39	8,042 88	898 04	201 44	16,197 75
High—Commercial,.....	17,561 43	15,914 22	1,567 06	338 15	35,380 91
High—Technical,.....	8,417 95	9,313 55	2,053 07	417 85	20,202 42
Homer Street,.....	1,807 13	2,149 29	81 29	25 73	4,064 44
Hooker (Old),.....	1,890 73	717 28	203 52	63 09	2,864 62
Hooker (New),.....	105 56	1,696 25			1,801 81
Howard Street,.....	2,960 63	2,773 03	552 29	114 72	6,400 67
Indian Orchard Grammar,.....	2,971 47	3,440 12	248 95	52 81	6,713 35
Indian Orchard Primary,.....	1,084 25	583 98	11 83	22 44	1,702 46
Jefferson Avenue,.....	1,411 44	598 10	98 31	54 98	2,162 83
Kensington,.....	1,822 47	2,711 94	188 24	61 24	4,783 89
Liberty,.....	319 54	829 91	128 23	7 61	1,157 34
Lincoln,.....	1,758 61	1,092 33	172 99	88 98	3,112 91
Rushville Portable,.....	563 50	87 10		3 04	653 64
School Street,.....	901 56	575 14	23 43	23 74	1,523 87
Sirteon Acres,.....	509 95	85 10		13 46	608 51
State Street,.....	1,756 37	4,821 44	225 23	43 85	6,346 89
Strickland,.....	1,124 97	431 98	46 04	90 76	1,683 69
Sumner Avenue,.....	1,438 14	1,173 60	118 37	55 89	2,776 80
Tapley,.....	1,650 48	1,186 42	85 86	29 68	2,902 29
Vocational,.....	1,667 59	1,582 20	829 24	77 92	4,106 95
Washington Portable,.....	348 60	62 21			410 71
Washington,.....	380 89	2,160 58	70	15 06	2,647 23
White Street,.....	1,460 47	743 70	128 51	88 63	2,371 51
William Street,.....	1,436 30	1,399 78	198 53	55 11	3,088 77
Worthington Street,.....	1,711 54	1,405 24	243 12	62 08	3,410 98
Rented Property,.....				62 42	62 42
	\$96,541 08	\$92,949 15	\$10,936 69	\$2,710 75	\$208,137 67
					\$203,137 67

Amount carried forward,.....

Brought forward,.....		\$203,137.67
Automobiles:		
Salaries of chauffeur and helpers,.....	\$1,259.53	
Supplies and replacements,.....	665.47	
Repairs,.....	130.14	
Registration,.....	9.00	
		2,064.14
Boiler insurance,.....		193.34
Freight and cartage,.....		233.08
Pensions,.....		433.62
Total expenditures,.....		\$206,061.85
Appropriations,.....	\$209,729.12	
Expenditures,.....	206,061.85	
Balance unexpended,.....	\$3,667.27	

SCHOOLS.—MAINTENANCE.

SCHOOL	Property Improvement and New Equipment	Electrical Work	Heating and Plumbing	Painting and Glazing	Roofs and Gutters	General Maintenance and Expenditures	Totals
Acushnet Avenue,.....	\$33 90	\$63 78	\$567 75	\$31 57	\$42 94	\$341 96	\$1,071 90
Alden Street,.....	71 08	19 59	149 13	40 21	11 10	23 43	319 54
Armory Street,.....	280 45	36 13	2,096 54	267 82	34 32	332 21	3,047 47
Barrows,.....	235 50	20 65	306 60	97 31	162 60	242 63	1,053 29
Boston Road,.....	5 58	5 58	369 28	34 06		172 57	581 48
Brightwood,.....	46 20	82 39	847 79	126 49	8 65	462 89	1,574 41
Buckingham,.....	968 17	141 99	783 72	239 96	77 30	379 60	2,580 74
Carew Street,.....	355 00	42 33	154 83	144 25	360 70	177 75	1,724 86
Carlisle (unoccupied),.....						1 10	1 10
Central Street,.....	100 65	27 47	474 66	50 75	67 85	154 20	875 58
374 Central Street,.....		3 65	77 00	17 00		3 67	101 22
Charles Street,.....	104 63	53 19	334 42	30 56		63 91	586 71
Chestnut Street,.....	606 13	201 96	1,082 16	282 75	70 82	596 81	2,840 63
Dry Bridge,.....			59 64	5 75		44 07	109 46
Eastern Avenue,.....	190 50	15 27	232 71	50 13	32 60	54 99	576 20
East Union Street,.....	26 20	48 11	296 85	24 30	2 40	163 99	556 65
Five Mile Pond,.....	2 23		375 18	13 50		21 11	60 14
Forest Park,.....	1,092 23	245 37	235 10	168 94	37 72	544 73	2,464 16
Glenwood,.....		6 61	657 73	13 90		43 18	829 48
High—Central,.....	90 42	351 69	657 32	256 82	98 41	371 57	1,826 26
High—Commercial,.....	1,212 53	112 74	407 13	277 91	37 95	166 11	2,164 09
High—Technical,.....	104 69	465 75	773 03	167 82	34 11	547 14	2,097 98
Hooker Street,.....	291 66	166 70	322 48	159 16	5 23	139 84	998 11
Hooker (Old),.....		36 52	759 87	152 78	22 22	171 91	1,160 30
Howard Street,.....	1,109 96	322 83	360 50	349 89	26 06	47 33	2,646 97
Indian Orchard Grammar,.....	208 48	91 87	638 49	37 88		176 43	1,165 63
Indian Orchard Primary,.....	14 62	25 14	591 58	38 33	89 92	213 70	833 47
Jefferson Avenue,.....	61 50	27 86	203 21	103 44	19 44	168 76	545 69
Kenington,.....	99 10	67 99	421 12	160 33		32 30	520 36
Liberty,.....	366 30	128 79	148 90	48 12		32 30	862 12
Rushville Portable,.....			78 35	21 56		68 57	188 42
School Street,.....	69 32	16 65	302 46	23 25	4 60	69 28	485 56
Sixteen Acres,.....			30 28	55 05		55 75	141 08
State Street,.....	189 00	136 81	274 94	41 98	34 82	137 21	814 76
Strickland,.....	178 53	30 98	111 78	30 06	2 35	103 49	457 19
Summer Avenue,.....	304 78	46 70	137 43	49 61	5 10	147 27	690 39
Tapley,.....	77 30	28 54	393 04	103 46	6 88	791 01	1,816 69
Vocational,.....	275 00	175 49	191 78	23 01	301 07	113 23	1,079 53
47 Vernon Street,.....		1 99	15 06	3 45		20 50	20 50
Washington Portable,.....			33 87	5 05		10 94	49 86
Washington,.....		3 98	5 38	7 10		30 80	80 80
White Street,.....	26 05	47 47	160 99	44 86	11 85	682 22	862 22
William Street,.....	426 47	33 33	461 08	144 97	4 53	269 07	839 03
Worthington Street,.....		41 14	628 39	196 38	47 39	210 56	1,560 33
	\$9,213 35	\$3,275 94	\$16,594 67	\$4,073 85	\$2,102 03	\$8,438 33	\$43,702 67

Carried forward.....

\$49,702 67

Brought forward,.....	\$43,702.67	
Emery Street Shop and Storehouse:		
Labor and materials on building,.....	\$422.13	
Labor and materials on equipment,.....	175.30	
New equipment,.....	27.60	
		625.03
Hooker School—Refinishing furniture in old building and moving it to new building,.....		1,271.10
Homer Street School—Moving portable houses from Brightwood and Washington schools and setting up,.....		934.11
White Street School—Moving portable house from Brightwood school and setting up,.....		371.66
Care of rented property,.....		91.39
Carfares,.....		155.77
Vacations and other undistributed time,.....		616.04
Miscellaneous tools,.....		75.50
Total expenditures,.....		\$47,843.27
Appropriations,.....	\$48,601.18	
Expenditures listed,.....	\$47,843.27	
Orders outstanding,.....	139.50	
		47,982.77
Balance unexpended,.....	\$618.41	

MUNICIPAL GROUP BUILDINGS.

Custodian's salary.....		\$1,390.40
Administration Building:		
Care of building and grounds,.....	\$17,476.35	
Telephone service,.....	3,457.75	
Freight and cartage,.....	50.44	
Light and power,.....	1,967.55	
Cleaning and toilet supplies,.....	1,216.48	
Other operating supplies and expenses,.....	1,015.86	
Repairs to building,.....	2,434.25	
Repairs to equipment,.....	1,216.45	
Property improvement and new equipment. .	1,623.82	
		<u>30,458.95</u>
Auditorium:		
Care of building and grounds,.....	\$3,935.41	
Light and power,.....	1,103.18	
Moving seats,.....	720.00	
Care of organ,.....	666.04	
General operating supplies and expenses,....	140.76	
Repairs to building,.....	482.06	
Repairs to equipment,.....	168.40	
Property improvement and new equipment, ..	69.38	
		<u>7,285.23</u>
Campanile:		
Chime ringer,.....	\$350.00	
Care of clock,.....	364.00	
Light and power,.....	217.36	
Repairs to building,.....	15.06	
Repairs to equipment,.....	93.21	
Property improvement and new equipment, ..	1,153.23	
		<u>2,192.86</u>
Sanitary:		
Care of building and grounds,.....	\$4,339.75	
General operating supplies and expenses,.....	1,047.97	
Repairs to building,.....	39.97	
Repairs to equipment,.....	135.64	
		<u>5,563.33</u>
Total expenditures,.....		\$46,890.77
Appropriations,.....	\$47,132.33	
Expenditures as listed, ..	\$46,890.77	
Orders outstanding,.....	113.70	
		<u>47,004.47</u>
Balance unexpended,.....	\$127.86	

MUNICIPAL HEATING PLANT.

Salaries, engineers and firemen,.....		\$8,804.59
Fuel,.....		25,051.11
Electricity for lighting,.....		179.96
Miscellaneous operating supplies,.....		358.89
Repairs to building,.....		79.76
Repairs to equipment,.....		109.61
New equipment,.....		241.14
Total expenditures,.....		<u>\$34,825.06</u>
Appropriations,.....	\$35,453.47	
Expenditures as listed, ..	\$34,825.06	
Orders outstanding,....	<u>453.00</u>	
	35,278.06	
Balance unexpended,.....		<u>\$175.41</u>

MILITIA RIFLE RANGE.

Caretaker,.....		\$319.00
Taxes and water rents,.....		149.00
Insurance,.....		32.88
Putting up and taking down targets,.....		101.50
Miscellaneous expenses,.....		2.65
Total expenditures,.....		<u>\$605.03</u>
Appropriations,.....	\$669.00	
Expenditures,.....	<u>605.03</u>	
Balance unexpended,.....		<u>\$63.97</u>

Respectfully submitted,

HIRAM L. DORMAN,
Superintendent of Public Buildings.

FIRE COMMISSIONERS.

BOARD OF FIRE COMMISSIONERS.

TERM EXPIRES.

WILLIAM W. TAPLEY, *Chairman*,.....1st Monday in May, 1919
CHARLES B. HITCHCOCK, *Secretary*,...1st Monday in May, 1920
EDWARDS O. DAVIS,.....1st Monday in May, 1921
THOMAS J. SHERIDAN,.....1st Monday in May, 1922
CHARLES A. ALLBE, Alderman, and Chairman of the Fire Department Committee of the City Council, ex officio.

BOARD OF FIRE CHIEFS.

Chief of the Department,.....WILLIAM H. DAGGETT
Deputy Chief,.....EVERETT A. KIMBALL
District Chief,.....BURTON STEERE
District Chief,.....JOHN R. GRAVES
District Chief,.....ARTHUR H. STRONG
District Chief,.....CLARENCE E. GESNER

Superintendent of Fire Alarm Telegraph Bureau, HERBERT H. BERRY

REPORT
OF THE
**BOARD OF COMMISSIONERS OF THE
FIRE DEPARTMENT**

SPRINGFIELD, MASS., December 13, 1918.

To His Honor, the Mayor, and Members of the City Council.

GENTLEMEN:—The fiscal year 1918 occupies practically the same relation to the personnel of this Department that the fiscal year 1916 did to its fire fighting equipment.

During 1916 horse-drawn apparatus, inadequate to the needs of a city of Springfield's proportions, was wholly done away with and the work of motorizing, which had been in progress during a period of several years, was completed so that we entered upon the fiscal year 1917 with a completely motorized Fire Department.

In after years 1918 will be recalled as the period wherein Springfield completed arrangements to change from the old continuous system of operation of its Fire Department to the Two Platoon system, which is now finding favor the country over as the most systematic, efficient, and altogether businesslike method of conducting a fire department, insuring alike the maximum of protection to a community and the best working conditions to the fire fighters themselves. Just as the fiscal year 1917 served as a test period for the completely motorized Springfield Fire Department so the fiscal year 1919 will serve to test Springfield's reorganized force of fire fighters and we have no hesitancy in stating it as our firm belief that the latter, handling as it should be handled, a mechanical equipment modern in each detail, will demonstrate to the people of Springfield that in its advocacy and arrangements for installation of the Two Platoon system in the Fire Department this Commission has been actuated solely by the desire to serve the best interests of the city.

There is one effect of adoption of the Two Platoon system which we believe calls for more than passing notice on the part of this Commission

and that is, abolition of the call fire service. This service, once including about two hundred men, has steadily decreased with the corresponding development of the permanent paid department until there are now but two call firemen left in the Department. These men, both attached to Engine Co. No. 5 at Indian Orchard, will retire from active service January 1, 1919, when the Two Platoon system becomes effective.

The members of this Commission appreciate, as probably few others do, the measure in which Springfield is indebted to the men who once comprised Springfield's force of call firemen and we take this opportunity of thanking those of their numbers still alive and honoring those who have died, for their service, from which has grown Springfield's present Fire Department.

Other matters, in addition to establishment of the Two Platoon system, having their effect upon the personnel of the Department, which have transpired during 1918, include ratification by the voters of Springfield of the proposition to place the office of Chief of the Fire Department under Civil Service and enactment by the Legislature of a law, effective February 1, 1919, establishing the pension age limit for firemen throughout the State at sixty years.

The inconsistency of withholding Civil Service classification from the uniformed head of this Department while every other member and both the heads and members of other City departments were placed under Civil Service has long been apparent and we feel that the change which brings the entire Department within the Civil Service restrictions and provisions can have none but a wholesome effect. Likewise the changed pension law, nullifying Springfield's ordinance and reducing the age of retirement of firemen in this city by five years, will, without doubt, work to the good of the Department, insuring at once a membership of comparatively young, vigorous men, well suited to the hardships of fighting fire, and equitable treatment of men who have given the best years of their lives to the service.

For your information we are presenting herewith a table showing in what form the present membership of the Fire Department will be affected by the change to the Two Platoon system:—

Rank.	Present System.	Two Platoon System.
Chief of the Department,.....	1	1
Deputy Chief,.....	1	1
District Chiefs,.....	2	4
Superintendent Fire Alarm Telegraph Bureau,	1	1
Asst. Supt. Fire Alarm Telegraph Bureau, ...	1	1
Superintendent of Repairs,.....	1	1
Captains,.....	21	21
Lieutenants,.....	23	23
Engineers of motor pumping engines,.....	5	5
Hose and ladder men,.....	123	209
Fire alarm operators and linemen,.....	5	5
Callmen,.....	3	0
Bookkeeper,.....	1	1
Clerk,.....	1	1
Totals,.....	189	274

It would hardly be fair to regard the difference in the above figures as a direct increase of eighty-five men for this Department under the Two Platoon system, as it should be borne in mind that the present authorized force of one hundred eighty-nine men has for a long time been inadequate to the city's needs in the matter of fire protection and it should also be borne in mind that Springfield's growth is by no means timed to cease with operation of this Department under the Two Platoon system. The same need that development of the Fire Department should keep pace with developments of the city will exist under this system as heretofore.

As a matter of fact the Department has not in many years been so badly in need of reconstruction of some of the fire stations as at present. Concrete apparatus floors are needed to replace wood floors in four stations and various other repairs should be made.

The growing need of additional housing facilities, to which attention has been called in previous reports, is to be met, temporarily at least, by establishment of the Two Platoon system, the effect of which will be to somewhat lessen these needs by reducing the number of men sleeping in quarters and we feel that because of this fact, because of the present cost of materials and labor, and because no arrangements could be made for housing the Department apparatus, which would have to be left outdoors, were work on the needed concrete apparatus floors possible this Winter, it would be better to get through the present period of high prices as best

may be done. Accordingly we have eliminated from this report practically all recommendations carrying with them expenditure of money for permanent construction or reconstruction and shall make provision in the Department budget for such temporary repairs and alterations upon buildings as we deem necessary to get through the fiscal year 1919.

Conditions at the Chestnut Street Station where, in anticipation of its abandonment with the extension of Taylor Street, repairs have been postponed for several years, are now however such as to warrant no further delay. We respectfully submit that the proposed extension of this street should no longer act to prevent improvements necessary to the performance of duty by the Fire Department. We urge upon the City Council of 1919 an early decision in this matter of the Taylor Street extension and, if the project be wholly abandoned or indefinitely postponed, ask consideration of our recommendation that immediate provision be thereafter made by special appropriation for repairs and alterations upon the Chestnut Street Station at an approximate cost of \$8,500.

Recognition of the fact that the present is no time in which to purchase new fire apparatus compels us to forego recommendation of the purchase of another motor pump at this time although the Department could use to great advantage such another piece of apparatus with which to replace an unsuitable pump at the Armory Street Station, were it available within a comparatively short time.

Because a new motor pump, purchase of which was authorized during the fiscal year 1918, has not yet been delivered, we have been obliged to get along with the old tractor-drawn steam engine now at the Oakland Street Station. This engine has been in service since 1901 and is liable to condemnation by State inspectors at any time. Delivery of the new pump, which may be made very soon now, will have the effect of somewhat relieving the situation although, in so far as the progressive needs of the Department for modern apparatus are concerned, no progress will have been made.

Thirty-eight pieces, now comprising the Department apparatus, are classified as follows:—

Hose wagons, ...	15
(14 combination hose and chemical, 1 spare.)	
Ladder trucks, ...	7
(6 aerial, 1 city service. Of these 3 are electric-driven, 3 gasoline-driven, 1 electric tractor-drawn.)	
Pumping engines, ...	
(4 gasoline triple combination; 1 steam, gasoline tractor-drawn.)	

Water tower,.....	1
(gasoline tractor-drawn.)	
Auxiliary squad cars,.....	2
Chiefs' cars.....	4
(Chief of Department, 1; Deputy Chief, 1; District Chiefs, 2.)	
Fire Alarm service.....	2
(1 truck, 1 runabout.)	
Superintendent of Repairs (runabout),.....	1
Runabouts (spare),.....	1
Total,.....	38

In reserve are sixteen sleighs for use with hired horses should weather conditions ever necessitate.

With regard to the services of District Chiefs as related to operation of the Department under the Two Platoon system we are in much the same situation as exists with regard to apparatus. Although provision has been made by ordinance for the appointment of two additional District Chiefs, increasing the total to four, the effect of the Two Platoon system upon this change is to leave us practically where we are with two District Chiefs under the continuous service system, as the services of the additional Chiefs, in common with those of the present ones, will be divided between the platoons into which the membership of the Department is to be separated.

For the foregoing reason we indorse the recommendation contained in the report of the Chief of the Department and at some time during the latter portion of the fiscal year 1919, when the Two Platoon system shall have become thoroughly established and effectively operative, shall ask of the City Council that authority be given this Commission by ordinance to appoint two additional District Chiefs, increasing the total to six.

Our recommendation of 1918 that provision be made by ordinance for the employment of a competent physician, a resident of this city, whose duty it shall be to respond to fire alarms for the purpose of giving emergency aid to firemen and other persons injured or overcome at fires, is respectfully renewed.

Also we renew our recommendation that provision be made by ordinance for the location of a fire alarm signal box upon either the exterior or interior walls of each building in the city used for school purposes.

To the tribute paid by Chief Daggett to the patriotism of Springfield's firemen we wish to add our approval and personal appreciation. Reports

concerning the men who entered the National service are to the effect that each gave a creditable accounting of himself, while the manner in which the members at home responded not only in the Fourth Liberty Loan, when the Department went 100 per cent, subscribing \$16,600, but in the preceding loans, in the War Chest drive, in the Red Cross membership campaigns, in the purchase of War Savings Stamps, through knitting done for the Red Cross and in various other ways, affords some of the best examples of patriotic team work of which we know.

In connection with extension of our fire alarm signal system, set forth in detail in the accompanying report of the Superintendent of the Fire Alarm Telegraph Bureau, it should be stated that the Chief of the Department, the Deputy Chief, and Districts Chiefs are now provided with telephone outfits, carried in their respective automobiles, by means of which, when attached to a signal box, they can be kept constantly informed, while at a fire, concerning other alarms received.

There was a period during the late Spring and early Summer of the current calendar year when, as a result of gaps left in the ranks of the Department members by enlistments and the drafts, we became really concerned over the problem of properly protecting the city against fire but the "Two Platoon Drive" for new men, successfully carried out by the permanent members, brought to us a number who are now proving themselves capable firemen and the termination of the war has done away with all cause for further anxiety. There is no doubt that we shall in the future be able to keep the membership of this Department at its full quota.

The report of the Chief of the Department, herewith, contains a brief statement of reasons why expenditures of the Fire Department for the fiscal year ended November 30, 1918, were as large as they proved to be. The Department budget for the fiscal year 1919 will exceed that of 1918 principally on account of the larger payroll resulting from increased membership under the Two Platoon system. Consideration of the budget may well be based not only upon this fact but also upon the fact that it will include, in addition to estimates of the usual maintenance charges; provision for the renewal of apparatus tires referred to in the report of the Chief and provision for temporary repairs upon and painting of buildings to be undertaken during the year as the only economic alternative for permanent construction.

The budget, like the few recommendations contained in this report, will be offered in the same spirit of economy in the greatest degree consistent with efficiency, that prompted advocacy of the change from horse-drawn to motor apparatus and from the continuous to the Two Platoon

system and we bespeak for both recommendations and budget earnest consideration by the City Council of 1919.

Respectfully submitted,

WILLIAM W. TAPLEY, *Chairman*,
CHAS. B. HITCHCOCK, *Secretary*,
EDWARDS O. DAVIS,
THOMAS J. SHERIDAN,
C. A. ALLBE,

Board of Fire Commissioners.

REPORT
OF THE
CHIEF OF THE DEPARTMENT

SPRINGFIELD, MASS., December 12, 1918.

To the Honorable Board of Commissioners of the Fire Department.

GENTLEMEN:—Your knowledge of conditions existing in the United States during 1918 will not, I am sure, lead you to expect to find recorded in this report accomplishments of an extensive nature.

Although a certain proportion of our membership at the outset of the war has been retained through the exemption of men deemed essential to the proper protection of the city against fire, the needs of the Federal Government for young men in the military service of the Nation have nevertheless been felt by the Fire Department through operation of the drafts and through enlistments. Eleven of our permanent members entered the different branches of the service and we have reason to be proud of the showing they have made.

Also we have reason to congratulate ourselves upon the work of the members of the Department who have remained at home. Your knowledge of the workings of the Department during this trying period will substantiate the statement that the fiscal year ended November 30, has been a busy one.

Although it was the good fortune of Springfield not to be visited during the period of the war by fire of large proportions in either the United States Armory plants or in the several private plants busied with the fulfillment of government contracts, the Fire Department was at all times maintained at a standard of efficiency capable of coping with such an emergency with a fair chance of success, had it arisen. As a matter of fact we were on two occasions called for small fires in the Watershops plant, the possibilities of which were great. Fortunately each fire was however discovered and extinguished in season.

In addition to actual fire protection it became a part of the wartime duty of this Department to inspect and report to designated Federal officials upon the nature and extent of protection against fire provided within

and about plants busied with government contracts. This work was exclusive of building inspections throughout the city, which numbered 11,235.

Adding to the work of an otherwise trying period were the greatest number of alarms received during any fiscal year since organization of the Department. The total of 1,244 exceeds the 1917 total, hitherto the largest, by 200.

The fire loss of \$330,147.70 can in no way be attributed to failure of this Department to perform its full duty. An examination of the records reveals that the bulk of the fires to which the Department responded were of minor importance. The bulk of the loss resulted from a few fires in high-value sections of the city where a very little fire and water resulted in much damage. That part of the loss covered by insurance was \$314,058.85, the uninsured loss being \$16,088.85. The usual tabulated statistics relative to alarms, valuation, insurance loss, causes of fires and alarms, inventory of land, buildings, equipment, etc., forming parts of this report are presented herewith. It will be noted that of the 1,244 alarms responded to, 346 were bell alarms; 711, telephone; 168, still; 6, thermostat, and 13, A. D. T. The false alarms received numbered 90. In addition were 56 needless alarms.

It is gratifying to note that certain of the recommendations which have figured in the annual report of the Chief of this Department with more or less regularity within recent years are now, as a result of changed conditions, rendered unnecessary.

The effect of the Two Platoon system, under which the Department must be placed before the outset of the next calendar year, is to give us a better working force. The authority given by ordinance for the appointment of two additional District Chiefs is a wise provision and one that must contribute to the successful operation of the Two Platoon system.

In connection with these appointments however I desire to call attention to the fact that because the services of all District Chiefs will, under operation of the Two Platoon system, be divided between the day and night shifts, practically no gain will have been made over the present arrangement of two District Chiefs working under the continuous service system. I therefore recommend that steps be taken at some time during the fiscal year 1919 to secure the appointment of still two more District Chiefs.

One change that cannot but have a helpful effect upon the efficiency of our body of fire fighters is that provided for in the legislature of 1918 and operative February 1, 1919, under which a pension age limit of sixty years, uniform among firemen throughout the State, is established. This

age of voluntary retirement from fire service is far better calculated to keep the ranks filled with young men than is the limit of sixty-five years now operative in this city under the provisions of the ordinance governing the Fire Department. Revision of the ordinance to enable retirement of firemen at sixty instead of sixty-five years of age has repeatedly been urged by the Chief of this Department. Now that it is established by State law several vacancies in our present membership will doubtless occur during the fiscal year 1919.

The records show that of a total of \$343,581.55 appropriated to the use of the Fire Department during the fiscal year 1918 the sum of \$341,893.77 was expended. Principal reasons why this amount is in excess of the expenditures of previous years are expense attending preparations for actual operation of the Department under the Two Platoon system, with which you are familiar, and the purchase of new batteries for our electrically driven pieces of apparatus. The life of one of these batteries is about three years and it was our misfortune to have the period of renewal fall in war times when the cost, proportionate to that of all other materials and supplies, was far in excess of the cost during normal times. I assure you, however, now that renewal has been accomplished, expenditures upon the upkeep of these particular pieces of apparatus during the fiscal year 1919 will be practically nothing.

The principal item of expense upon apparatus during 1919 will probably be for tire replacements. Solid rubber tires used on certain of the heavier pieces of apparatus, some of which have been in use six and seven years, have now become so worn as to have lost all resiliency, with the result that their continued use, especially over rough pavements found in certain parts of the city, is at the expense of the apparatus upon which they are used. Replacement of these tires must be effected as speedily as possible and I regret to remind you that the cost of so doing will be in excess of the cost during normal times.

Recent inspection of the several fire stations has served to familiarize you with the needs of each in the matter of minor repairs and alterations and I will not detail them here.

My recommendations of previous years with regard to the erection of one or more new stations and other permanent work, especially the construction of steel and concrete apparatus floors in certain of the stations now having wood floors, are omitted from this report, not because need of them has become less but because present conditions as related to labor and building materials are such as to absolutely preclude practically all of these undertakings.

The Chestnut Street Station has however been allowed to go so long

without repairs, in anticipation of the extension of Taylor Street and its effect upon that property, that it cannot well go longer without attention. In addition to other necessary changes the apparatus exit and doors should be rebuilt and I recommend that such changes as are necessary at this station be made as early as possible, at an approximate cost of \$8,500.

Were I to fail of again calling your attention to the patriotic work of the members of this Department I should consider myself guilty of neglect of duty. The same spirit of eager willingness to aid in the successful prosecution of the war, through subscription to government bond issues, through making of knitted articles for the Red Cross society and in other ways, which they evidenced during the fiscal year 1917, has been evident among the men during the fiscal year 1918. Their subscription to the Fourth Liberty Loan was highly gratifying and I assure you I enjoy a particular pride in the privilege of being the uniformed head of such a loyal body of men as the members of the Springfield Fire Department have shown themselves to be.

Respectfully submitted,

W. H. DAGGETT,
Chief.

REPORT
OF THE
**SUPERINTENDENT OF THE FIRE
ALARM TELEGRAPH BUREAU**

SPRINGFIELD, MASS., December 10, 1918.

To the Honorable Board of Fire Commissioners.

GENTLEMEN:—The Fire Alarm system is in first class condition.

During the year past 346 bell alarms have been received and transmitted.

Twenty-eight of the old type boxes have been superseded by the new successive type Peerless and three boxes have been installed in new locations.

About three and one half miles of overhead wire have been removed and the circuits placed underground, some seven thousand feet of cable being used for the underground work.

There now remain fifty of the old type boxes that should be removed and we urge that sufficient appropriation be made to make this change.

A system of telephonic communication between any box and the Fire Alarm office has been inaugurated whereby the Fire Alarm office can be in communication with the District Chiefs at a large fire, giving the officers in charge important information when necessary.

Respectfully submitted,

HERBERT H. BERRY,
Superintendent.

INVENTORY OF THE FIRE DEPARTMENT.

DECEMBER 1, 1918.

	Land.	Buildings.	Equipment.	Total.
Armory street,.....	\$1,200.00	\$16,000.00	\$13,436.00	\$30,636.00
Chestnut street,.....	10,000.00	14,500.00	12,700.00	37,200.00
Court street,.....	35,000.00	101,500.00	46,600.00	183,100.00
Indian Orchard,.....	1,200.00	30,000.00	17,750.00	34,950.00
Margaret street,.....	2,000.00	25,500.00	6,000.00	33,500.00
Mill street,.....	2,000.00	16,500.00	23,150.00	41,650.00
Mill River lane,.....	300.00	2,000.00	1,300.00	3,600.00
North street,.....	4,000.00	58,000.00	15,650.00	77,650.00
North Main street,.....	3,900.00	30,000.00	18,500.00	52,400.00
Oakland street,.....	2,000.00	11,000.00	28,500.00	41,500.00
Pine street,.....	2,500.00	35,000.00	18,000.00	55,500.00
Plainfield street,.....	1,200.00	10,500.00	5,814.00	17,514.00
Walnut street,.....	3,500.00	32,500.00	20,250.00	56,250.00
Winchester Square,.....	7,000.00	40,000.00	27,750.00	74,750.00
Fire Alarm service,.....			126,000.00	126,000.00
	<u>\$75,800.00</u>	<u>\$423,000.00</u>	<u>\$381,400.00</u>	<u>\$866,200.00</u>

**STATEMENT OF
ALARMS, VALUATION, INSURANCE AND LOSS
INVOLVED IN FIRES OF THE FISCAL YEAR ENDED NOV. 30, 1918.**

	Alarms					Value	Insurance	Loss				In Building Where Fire Originated	By Exposure
	Bell	Tele- phone	Still	Ther- mo- stat	A. D. T.			Total	Insured	Uninsured	Total		
Dec.	43	55	11	1	5	115	\$772,922.00	\$558,470.00	\$23,289.33	\$4,030.78	\$27,320.11	\$27,320.11	
Jan.	32	41	17	1	3	94	1,444,733.00	1,275,400.00	47,437.88	1,383.00	48,820.88	48,820.88	
Feb.	29	45	7		81	94	5,634,836.09	5,221,500.00	85,473.66	1,490.00	86,963.66	85,663.66	\$1,300.00
March	27	68	12	1	1	103	374,635.00	326,100.00	11,120.49	186.00	11,306.49	11,149.14	157.35
April	36	134	18	1	1	190	1,265,740.00	1,100,307.23	34,669.26	120.00	34,787.26	34,787.26	
May	23	58	20			101	471,450.00	473,593.14	9,990.61	2,147.50	12,138.11	12,138.11	
June	21	43	18		82	82	634,501.74	537,424.00	66,510.26	1,325.57	67,835.83	67,354.90	481.03
July	33	61	10	1	1	106	145,410.00	119,975.00	7,918.75	906.00	8,824.75	8,774.75	50.00
Aug.	14	24	7			45	202,100.00	176,700.00	3,112.58		3,112.58	3,100.58	12.00
Sept.	12	17	8		1	38	1,119,800.00	85,160.00	2,063.67	1,690.00	3,753.67	3,728.67	25.00
Oct.	32	74	18		1	125	376,875.00	328,400.00	15,538.57	970.00	16,508.57	16,508.57	
Nov.	44	91	22	1		158	263,225.00	224,800.00	6,935.79	1,840.00	8,775.79	8,775.79	
1918	346	711	168	6	13	1244	\$12,706,227.83	\$10,427,759.37	\$314,058.85	\$16,088.85	\$330,147.70	\$328,122.32	\$2,025.38
1917	287	603	127	12	15	1044	\$4,878,751.74	\$4,019,121.09	\$168,040.57	\$13,755.46	\$181,796.03	\$180,170.10	\$1,625.93
1916	308	465	116	9	13	911	10,204,850.60	8,821,015.14	170,646.47	7,299.92	177,946.39	175,272.33	2,674.06
1915	339	467	113	5	14	938	5,593,339.60	4,704,693.27	198,148.00	9,358.20	207,506.20	206,753.62	752.58
1914	338	485	153	11	6	993	6,304,701.85	5,598,198.09	308,561.01	20,103.93	328,664.94	320,552.82	8,112.12

CLASSIFICATION OF LOSS
INVOLVED IN FIRES OF THE FISCAL YEAR ENDED NOV. 30, 1918.

	*\$10 or Less.	Between \$10 and \$50.	Between \$50 and \$100.	Between \$100 and \$1,000.	Between \$1,000 and \$5,000.	Between \$5,000 and \$10,000.	Between \$10,000 and \$20,000.	Over \$20,000	Total Alarms.
Dec.	68	6	7	28	5	1	..	..	115
Jan.	44	9	13	18	8	1	1	..	94
Feb.	44	5	11	15	5	..	..	1	81
March	89	3	4	9	4	..	..	..	109
April	169	2	4	13	1	..	..	1	190
May	84	..	4	8	5	..	..	..	101
June	68	4	1	6	2	..	..	1	82
July	74	14	6	10	2	..	..	..	106
Aug.	36	1	2	5	1	..	..	..	45
Sept.	19	4	4	11	..	..	..	..	38
Oct.	101	8	3	11	1	..	1	..	125
Nov.	133	8	7	7	3	..	..	..	158
Total	929	64	66	141	37	2	2	3	1,244
1917	793	67	43	100	34	5	1	1	1,044
1916	667	48	42	110	40	2	2	..	911

*Includes false and needless alarms answered.

COMPARATIVE STATEMENT OF LOSS.

*YEAR	ALARMS	PROPERTY LOSS	PER CAPITA LOSS
1871.....	21.....	\$199,317.00.....	\$7.46
1872.....	22.....	106,425.00.....	3.99
1873.....	48.....	191,107.00.....	7.16
1874.....	38.....	285,822.02.....	10.70
1875.....	57.....	476,961.45.....	15.36
1876.....	53.....	120,824.00.....	3.89
1877.....	32.....	74,071.00.....	2.39
1878.....	39.....	49,552.00.....	1.60
1879.....	33.....	36,706.70.....	1.18
1880.....	27.....	8,661.35.....	.26
1881.....	61.....	92,352.82.....	2.77
1882.....	73.....	60,232.06.....	1.81
1883.....	46.....	34,969.11.....	1.05
1884.....	54.....	30,755.34.....	.92
1885.....	48.....	39,241.91.....	1.04
1886.....	61.....	33,584.00.....	.81
1887.....	86.....	64,930.29.....	1.73
1888.....	79.....	177,577.19.....	4.73
1889.....	79.....	52,085.19.....	1.39
1890.....	92.....	33,864.99.....	.77
1891.....	141.....	201,126.00.....	4.55
1892.....	140.....	125,243.86.....	2.83
1893.....	147.....	397,531.03.....	9.00
1894.....	125.....	57,732.41.....	1.31
1895.....	128.....	43,311.74.....	.84
1896.....	141.....	57,206.60.....	1.11
1897.....	157.....	55,460.89.....	1.08
1898.....	171.....	235,981.79.....	4.58
1899.....	213.....	94,694.02.....	1.84
1900.....	222.....	62,157.70.....	1.00
1901.....	236.....	96,409.25.....	1.55
1902.....	248.....	149,931.33.....	2.42
1903.....	311.....	30,316.69.....	.49
1904.....	385.....	68,392.86.....	1.10
1905.....	424.....	208,451.58.....	2.83
1906.....	403.....	105,771.28.....	1.39
1907.....	498.....	535,549.74.....	7.05
1908.....	530.....	88,690.38.....	1.17
1909.....	675.....	75,701.81.....	1.00
1910.....	710.....	133,329.47.....	1.50
1911.....	729.....	397,714.08.....	4.47
1912.....	829.....	166,210.66.....	1.87
1913.....	1,033.....	264,165.72.....	2.97
1914.....	993.....	328,664.94.....	3.70
1915.....	938.....	207,506.20.....	2.02
1916.....	911.....	177,946.39.....	1.73
1917.....	1,044.....	181,796.03.....	1.51
1918.....	1,244.....	330,147.70.....	2.64

*Fiscal year; December 1 to November 30 inclusive.

ALARMS ANSWERED

Hose	Co. No. 1.....	119
Hose	Co. No. 2.....	216
Hose	Co. No. 6.....	92
Hose	Co. No. 7.....	194
Hose	Co. No. 10.....	185
Hose	Co. No. 11.....	81
Hose	Co. No. 12.....	103
Hose	Co. No. 13.....	138
Truck	Co. No. 1.....	115
Truck	Co. No. 3.....	69
Truck	Co. No. 6.....	84
Truck	Co. No. 8.....	136
Truck	Co. No. 10.....	145
Truck	Co. No. 13.....	70
Engine	Co. No. 3.....	126
Engine	Co. No. 4.....	148
Engine	Co. No. 5.....	117
Engine	Co. No. 8.....	176
Engine	Co. No. 9.....	101
Squad A.....		314
Squad B.....		433

CAUSES OF FIRES AND ALARMS

Accident with candle.....	1
Accident with gas.....	1
Accident with lamp.....	2
Accident with oil stove.....	3
Backdraft (smoke).....	12
Back fire.....	22
Bonfires.....	29
Broken gas fixture.....	1
Brush, forest, grass, leaves.....	309
Burning meat (grease).....	5
Burning iron.....	1
Careless smoking.....	70
Careless plumbers.....	2
Careless with candle.....	3
Careless with fire.....	1
Careless with gas stove.....	1
Careless with gasoline.....	9
Careless with matches.....	16
Careless with kerosene oil.....	2

Cat and matches,.....	1
Charcoal,.....	2
Children and fire,.....	1
Children and matches,.....	35
Children and rubbish,.....	1
Chimney fires,.....	43
Clothing afire,.....	1
Clothing near stove,.....	2
Curtain and lamp,.....	1
Defective chimney (flue),.....	9
Defective fireplace,.....	3
Defective insulation,.....	2
Defective setting of boiler,.....	1
Defective smokehouse,.....	1
Defective stovepipe (smokepipe),.....	3
Defective wiring,.....	1
Dumping grounds,.....	46
Electric flatiron,.....	2
Electric transformer,.....	1
Electric lamp and bedding,.....	1
Electric wires,.....	2
Exploding lamp,.....	1
False alarms,.....	90
Faulty construction near chimney,.....	1
Fireworks,.....	13
Foul smokepipe (flue),.....	2
Foundry flasks,.....	1
Fumigating,.....	1
Gas heater (stove) (plate),.....	8
Gas leak and lighted match,.....	3
Gasoline,.....	7
Gas torch,.....	1
Grease flue,.....	1
Heat from chimney,.....	1
Heat from radiator,.....	1
Heat from stove,.....	2
Hot ashes (coals) (cinders),.....	14
Hot fat,.....	1
Hot metal,.....	1
Hot oil,.....	1
Hot tar,.....	2
Incendiary,.....	10
Leak in gas pipe,.....	1
Malicious mischief,.....	15
Needless alarms,.....	56
Oil heater (stove),.....	19
Oil lamp,.....	3
Oil lantern,.....	1
Open grate,.....	2
Out of town,.....	1
Overheated chimney,.....	1
Overheated electric fan,.....	1
Overheated forge,.....	1
Overheated furnace (heater) (boiler),.....	12
Overheated hot air flue,.....	3
Overheated motor,.....	1

Overheated pipe covering, ...	1
Overheated press, ...	2
Overheated pulley, ...	1
Overheated stove, ...	8
Overheated shellac tank, ...	1
Overheated stovepipe (smokepipe), ...	1
Papers in oven, ...	1
Rekindling of former fire, ...	3
Rubbish in barrels, ...	7
Rubbish in basement, ...	10
Rubbish, miscellaneous, ...	27
Sawdust, ...	2
Salamander, ...	1
Shavings near boiler, ...	1
Short circuit, ...	12
Smoking in bed, ...	2
Smoke from forge, ...	2
Smokestack, ...	2
Sparks from carder, ...	1
Sparks from chimney (stack), ...	4
Sparks from forge, ...	1
Sparks from machine, ...	1
Sparks from motor, ...	1
Sparks from locomotive, ...	2
Sparks from picker, ...	3
Sparks from stove (furnace), ...	4
Sparks in bag of charcoal, ...	1
Spontaneous combustion, ...	20
Thawing chute, ...	1
Thawing waterpipes, ...	18
Trolley cars, ...	36
Tube blown off gas heater, ...	1
Unknown, ...	130
Vulcanizing machine, ...	1
Washrag behind stove, ...	1
Waterfront blown out, ...	2
Wood in oven, ...	4
Total, ...	1,244

POLICE DEPARTMENT.

REPORT

OF THE

BOARD OF POLICE COMMISSIONERS

To His Honor, the Mayor, and the City Council of the City of Springfield.

GENTLEMEN:—The Board of Police Commissioners herewith submit to you their annual report covering the activities of the department for the year ending November 30, 1918.

In April his Honor, the Mayor, reappointed Dr. D. J. Brown a member of the Board and at the first meeting of the Board in May for reorganization he was re-elected chairman, which position he held until October 21, when he resigned the chairmanship, owing to the press of duties in his profession, and Charles F. Spellman was elected chairman of the Board, leaving the personnel of the Board for the remainder of the year, Charles F. Spellman, Chairman, Dr. D. J. Brown, and Joseph G. Roy.

INCIDENTS OF THE YEAR.

The appropriation for the department for the year was \$309,861.55. We have expended \$289,390.82, leaving a balance of \$20,470.73. This balance is accounted for by the enlistments, resignations, sickness, and deaths in the department during the year.

The discipline of the department throughout the year has been uniformly good.

It is gratifying to this Board that we are able to report no serious disturbances in the city throughout the year, nor the occurrence of any conditions which would call for strenuous concerted action upon the part of the department.

No matter of importance perhaps has caused more interest than the adoption by the Board of the practice in a number of other cities in the appointment of special policewomen. After the necessary legislation had been obtained and the submission of names by the Civil Service Commission, the Board appointed two special policewomen. Up to the time of this writing their work has been very satisfactory in the duties

to which they have been assigned and we confidently expect that their services will prove of much value in the future.

During the year the Board has adopted efficiency records of the members of the department. This system is one that was originated by the Civil Service Commission and has been adopted in all the State departments and is being adopted in all the municipalities throughout the State.

Since the declaration of war, this department has complied with all the requests of the Federal Government for assistance with reference to alien enemies and draftees, and, further, the department has invested thirty thousand (\$30,000) dollars in Liberty Bonds and went over the top 100 per cent in the War Chest drive.

EQUIPMENT.

The department is well equipped with automobile apparatus. During the year we have purchased two additional Ford cars to do patrol duty after midnight. This automobile patrol service has demonstrated its efficiency and in order to keep down the cost of up-keep we would recommend that, as heretofore, these cars be turned in in the spring for new ones, which will call for an item in our appropriation of perhaps \$1,500; this is an economical measure.

DEATHS AND RESIGNATIONS.

Five members of the department died during the year: Captain Edward J. Rathbun, Robert G. Rennison, Timothy J. Maloney, Harry O. Webster, and Raymond J. Hannon.

The department sustained a distinct loss in the death of Captain Rathbun. He was a most efficient officer and always had a deep interest in his duties, and his personality was such that he had the good will and esteem of every member of the department. The other officers who died were very efficient, loyal men.

Ten members of the department enlisted and were drafted into the Army and Navy during the year. We are in hopes of having the benefit of their services again in the near future.

Seventeen members of the department resigned during the year, most of them to go into munition factories where they could earn more money.

Four members of the department were before the Board on charges and after a hearing were dismissed from the service.

RECOMMENDATIONS.

We wish again to call to the attention of your Honorable Board the need of enlarging our present police headquarters building. This suggestion has been made by us in previous years but at this time the need becomes more and more necessary owing to the increase in the business of the police court. The County of Hampden now pays \$1,100 per year for the rent of the present police court quarters and it seems to this Board that for the amount so paid they should be entitled to more fitting and larger space and we assume that if more room was provided for the Court, the city would then receive an increased rent.

The Commissioners would like to call the attention of your Board to the need of an ordinance prohibiting the hawking and peddling of wares on Main street between the Arch and Howard street. We believe that every one will agree that Main street between these points is sufficiently congested without having it further congested by men carrying on private enterprises.

We recommend that your Board take such action as will cause an amendment to section thirty-two of chapter one hundred and eight of the Revised Laws referring to police matrons. We believe that police matrons should be appointed by the Board of Police Commissioners in this city, and we respectfully submit this suggestion for your consideration. Every member and employee of the department is appointed by the Board of Police Commissioners and we believe that the police matrons should be included.

The condition of the police headquarters building and the station in Indian Orchard is very good at the present time, except that the interior of both buildings will need redecorating throughout and we purpose in our estimate for the current year to put an item in covering that expense.

The report of the Chief of Police covering the work of the department for the year is attached hereto and is submitted as a part of this report.

In conclusion we desire to thank His Honor, the Mayor, and your Honorable Board and Judge Wallace R. Heady for the co-operation and support given the department throughout the year.

Respectfully submitted,

CHARLES F. SPELLMAN, *Chairman*,
DANIEL J. BROWN, M.D.,
JOSEPH G. ROY,

Board of Police Commissioners.

ANNUAL REPORT
OF
CHIEF OF POLICE

To the Board of Police Commissioners of the City of Springfield.

GENTLEMEN:—I herewith submit the Annual Report of the Chief of Police for the year ending November 30, 1918.

Respectfully submitted,

WILLIAM J. QUILTY,
Chief of Police.

CITY OF SPRINGFIELD, MASSACHUSETTS.

1918.

Population (estimated),.....	115,000
Area,.....	39.90 square miles
Public streets,.....	191 miles

The following is a schedule and valuation of the property in charge of the Police Department:—

Land,.....	\$63,433.00
Buildings,.....	118,600.00
Signal system,.....	15,000.00
Automobile equipment,.....	6,000.00
Office equipment,.....	3,500.00
Other equipment,.....	8,000.00
Total,.....	<u>\$214,533.00</u>

APPROPRIATIONS, EXPENDITURES.

Appropriation,.....		\$309,861.55
Expenditures,.....	\$289,390.82	
Balance,.....	<u>20,470.73</u>	\$309,861.55

COMPOSITION OF FORCE.

Chief,.....	1
Deputy Chief,.....	1
Captain of Detectives,.....	1
Captains,.....	3
Detective Lieutenants,.....	10
Lieutenants,.....	2
Sergeants,.....	12
Patrolmen, Grade A,.....	118
Patrolmen, Grade B,.....	16
Patrolmen, Grade C,.....	16
Policewomen,.....	2
Department Clerk,.....	1
Clerks,.....	2
Chauffeurs,.....	6
Matrons,.....	2
Telephone Operators,.....	2
Superintendent of Signal System,.....	1
Janitors,.....	3
Janitress,.....	1

RETIRED.

Deputy Chiefs,.....	2
Captain,.....	1
Detective Lieutenants,.....	2
Lieutenant,.....	1
Sergeants,.....	3
Patrolmen,.....	5

**NUMBER OF LICENSES ISSUED AND FEES COLLECTED
DURING THE YEAR ENDING NOVEMBER 30, 1918.**

11 auctioneers,.....	\$22.00
8 bowling alleys,.....	16.00
156 express (310 wagons),.....	387.50
10 intelligence offices,.....	20.00
125 jitneys,.....	625.00
128 jitney operators,.....	128.00
4 pawnbrokers,.....	200.00
61 poolrooms,.....	1,020.00
150 rag pickers,.....	517.95
65 second hand dealers,.....	130.45
101 taxicabs,.....	101.00
70 fruits and vegetables,.....	1,750.00
165 farmers' permits,.....	41.25
Total,.....	<u>\$4,959.15</u>

**TOTAL NUMBER OF DAYS LOST BY SICKNESS, ABSENCE
AND VACATION BY MEMBERS OF THE
DEPARTMENT.**

Total number on special duty,.....	1,641
Total number on sick list,.....	1,957
Total number on vacation,.....	1,913
Total number on leave of absence,.....	1,397
Total number without leave of absence,.....	2
Total number days off,.....	3,899

MISCELLANEOUS DUTIES.

Accidents reported,.....	1,122
Buildings opened and secured,.....	2,370
Defective streets reported,.....	83
Defective sidewalks reported,.....	156
Disturbances suppressed,.....	32
Disorderly houses reported,.....	18
Electric lights out,.....	2,030
Fire alarms given,.....	43
Fire alarms reported,.....	354
Fires extinguished by officers,.....	7
Intoxicated persons sent home,.....	33
Lost children restored,.....	111
Lights hung in dangerous places,.....	14
Teams put up,.....	24

ACCIDENTS REPORTED BY POLICE OFFICERS

For the Year Ending November 30, 1918.

Accidental shooting,.....	1
Asphyxiation,.....	10
Automobiles,.....	747
Bicycles,.....	18
Drowning,.....	9
Elevator,.....	1
Explosion in manhole,.....	1
Fainting,.....	11
Falls,.....	81
Falling objects,.....	4
Fits,.....	8
Fires,.....	7
Motorcycles,.....	35
Runaway horses,.....	6
Sleighs,.....	6
Steam railroads,.....	10
Sudden deaths,.....	9
Suicide, attempted,.....	2
Teams,.....	24
Trolley cars,.....	132
Total,.....	1,122

An inspection of the records of these accidents shows that in 180 cases the pedestrian was to blame. There were seven deaths from automobile accidents.

AUTOMOBILE SERVICE.

	White Prison Van	Knox Prison Van.	Touring Car.
Regular runs,.....	2,611	1,042	2,985
Emergency runs,.....	175	54	51
Fire runs,.....	89	27	0
Total runs,.....	2,876	1,223	3,036

	Chief's Car.	Touring Car.	White Prison Van.	Knox Prison Van.	Total.
Miles run,.....	6,904	7,958	5,127	1,859	21,848
Gasoline used, gal.,....	770	872	937	512	3,091
Oil used, gal.,.....	22	16	36	18½	92½

Ford Patrol Cars, eleven months ending November, 1918:—

	No. 1 Ford.	No. 2 Ford.	No. 3 Ford.	No. 4 Ford.	No. 5 Ford.	Total.
Miles run,.....	22,480	24,763	25,922	10,856	9,462	93,581
Gasoline used, gal.,..	1,903	1,898	1,849	732	688	7,070
Oil used, gal.,.....	46	80	67	12½	12½	218

Tires and tubes for nine cars:—

	30 x 3	30 x 3½	34 x 4	35 x 4½	37 x 5	Total.
Tires,.....	24	38	6	7	7	82
Tubes,.....	13	17	6	2	3	41
Cost of tires,...	\$364.08	\$739.10	\$203.70	\$349.72	\$444.92	\$2,101.52
Cost of tubes,..	39.39	70.04	32.16	13.56	24.93	180.08
Cost of gasoline,.....						2,591.06
Cost of oil,.....						155.25
Gasoline, oil, tires, and tubes,.....						\$5,027.91

CHARGES ON WHICH ARRESTS WERE MADE.
CRIMES AGAINST THE PERSON.

	1914	1915	1916	1917	1918
Abduction,.....	0	0	1	0	0
Assault and battery,.....	168	152	152	213	182
Assault, felonious,.....	0	1	0	0	0
Assault on officer,.....	29	26	36	22	17
Assault with deadly weapon,.....	19	18	14	24	25
Assault with intent to kill,.....	1	3	2	1	8
Assault, indecent,.....	4	2	1	1	8
Assault and robbery,.....	0	1	7	2	0
Assault, attempt to rob,.....	7	0	0	0	0
Manslaughter,.....	1	3	2	2	3
Murder,.....	7	2	1	2	2
Rape,.....	3	3	1	3	5
Rape, attempt,.....	0	1	2	1	1
Robbery,.....	1	2	1	0	0
Threatening,.....	0	1	5	2	2
	240	215	225	273	253

CRIMES AGAINST PROPERTY.

	1914	1915	1916	1917	1918
Arson,.....	0	0	0	0	2
Breaking and entering,.....	42	26	29	61	59
Breaking and entering, attempt,.....	0	3	0	2	4
Breaking glass,.....	3	5	9	13	10
Breaking into a letter box,.....	0	0	1	0	0
Burning a building,.....	0	2	0	0	0
Concealing leased property,.....	2	0	6	1	1
Concealing mortgaged property,.....	0	0	0	1	0
Defrauding electric light company,.....	0	0	2	0	0
Defrauding hotel,.....	0	0	2	0	0
Defrauding an insurance company,.....	0	1	0	1	0
Destroying property,.....	23	1	5	13	3
Driving away an auto,.....	3	21	7	28	22
Driving away a team,.....	6	2	0	0	2
Embezzlement,.....	0	0	0	1	0
Evading railroad fare,.....	4	4	2	3	4
Extortion,.....	2	1	0	0	0
Fortune telling,.....	0	4	2	0	0
Injuring personal property,.....	0	0	0	7	0
Larceny,.....	296	250	203	317	320
Larceny, attempt,.....	5	6	1	4	3
Larceny from common carrier,.....	7	3	3	13	15
Larceny from the person,.....	8	2	2	2	6
Larceny from the person, attempt,.....	0	1	0	1	0
Larceny in a building,.....	6	12	3	8	19
Malicious mischief,.....	10	7	3	9	9
Mortgaging leased property,.....	0	1	0	0	0
Obtaining goods under false pretenses,....	0	0	1	0	0
Placing explosives in a building,.....	1	0	0	0	0
Placing explosives on street car tracks,....	1	0	0	0	0
Receiving stolen goods,.....	5	10	8	19	12
Removing and concealing personal property,.....	1	0	0	2	3
Retaining city library books,.....	0	0	1	0	1
Selling leased property,.....	4	0	2	1	2
Selling mortgaged property,.....	0	1	0	0	3
Stealing a ride,.....	0	0	0	3	0
Taking and using,.....	2	0	0	0	0
Throwing missiles at autos,.....	0	0	1	0	0
Trespass,.....	38	22	23	22	13
Trespass of fowls,.....	0	0	0	0	1
Unlawful taking,.....	0	0	0	6	0
Uttering worthless checks,.....	0	1	2	0	0
Uttering worthless checks, attempt,.....	1	0	0	0	0
	470	386	318	538	514

CRIMES AGAINST THE PUBLIC ORDER.

	1914	1915	1916	1917	1918
Abandoning child,.....	0	0	1	0	0
Abandonment,.....	8	3	14	15	13
Abortion,.....	1	0	0	2	0
Abortion, accessory to,.....	1	0	0	1	0
Accosting a female,.....	0	1	0	0	0
Absent without leave from U. S. Army,...	0	0	0	0	10
Adultery,.....	4	9	2	15	81
Attempt to bribe,.....	1	0	0	0	0
Bastardy,.....	14	26	18	33	19
Being present at illegal game,.....	9	22	0	2	0
Being present where lottery is promoted,...	46	12	26	0	0
Being present at opium resort,.....	7	0	0	0	0
Bench warrant,.....	0	1	1	0	0
Bigamy,.....	1	0	0	3	2
Breach of the peace,.....	213	185	184	143	138
Buying junk from minors,.....	0	0	1	1	0
Carrying concealed weapons,.....	42	45	45	37	30
Committing a nuisance,.....	0	0	0	1	0
Common brawler,.....	0	0	1	1	2
Common night walker,.....	21	9	19	8	24
Concealing birth of illegal child,.....	1	0	0	0	0
Contempt of court,.....	1	0	2	3	2
Crime against chastity,.....	9	13	6	2	4
Cruelty to animals,.....	2	2	4	5	4
Delinquents,.....	98	79	59	26	11
Deserters,.....	1	4	3	4	10
Disorderly conduct,.....	17	28	16	25	36
Disorderly house keeping,.....	0	8	4	10	11
Distributing obscene literature,.....	0	1	0	0	0
Disturbing a meeting,.....	6	8	19	7	15
Disturbance on street car,.....	2	2	7	7	0
Doorkeeper in gambling house,.....	0	0	0	0	1
Drunkenness,.....	2,499	2,047	2,195	2,473	1,336
Enticing female to prostitution,.....	1	0	0	0	0
Escaped lunatic,.....	0	2	1	0	0
Escaped from Lyman School,.....	1	0	0	3	0
Escaped prisoner,.....	0	0	0	0	6
False advertising of cigars,.....	0	0	0	0	1
Forgery,.....	1	0	2	0	0
Fornication,.....	63	34	22	34	108
Fugitive from justice,.....	92	85	108	120	142
Furnishing liquor to soldiers,.....	0	0	0	15	11
Gambling,.....	46	86	51	143	67
Gaming on Lord's day,.....	31	14	12	45	52
Habitual truant,.....	5	0	1	0	0
Having obscene literature,.....	0	1	0	0	1
Having obscene pictures,.....	1	0	0	0	0
Hunting without license,.....	0	0	0	0	2
Impersonating an officer,.....	1	0	0	0	0

	1914	1915	1916	1917	1918
Incest,.....	0	1	1	0	0
Indecent exposure,.....	7	10	6	4	6
Insane,.....	37	55	44	42	29
Itinerant vendor,.....	1	2	1	0	0
Keeping gambling house,.....	2	6	2	7	5
Keeping house of ill-fame,.....	2	6	0	0	0
Keeping a liquor nuisance,.....	0	0	0	2	0
Keeping lodging house without license,....	0	0	0	0	1
Keeping unlicensed dog,.....	14	35	25	17	1
Lewd and lascivious,.....	0	11	0	0	11
Lewd and lascivious cohabitation,.....	26	7	15	31	47
Making false report of birth of child,.....	1	0	0	0	0
Mutilating U. S. flag,.....	0	0	1	3	0
Neglected children,.....	0	0	0	0	24
Neglecting to report birth of illegal child,..	1	0	0	0	0
Non-payment of fine,.....	3	0	0	0	0
Non-support,.....	104	107	102	153	120
Non-support of parents,.....	0	0	0	0	14
Not having lights on vehicle,.....	14	0	14	0	0
Not recognizing police court,.....	0	0	0	1	0
Operating auto under influence of liquor,..	2	16	4	28	29
Operating poolroom without license,.....	1	0	0	0	0
Peddling without a license,.....	13	6	5	13	18
Perjury,.....	3	2	0	0	3
Placing obstruction on street car tracks,..	0	0	0	2	0
Polygamy,.....	0	0	0	0	2
Possession of lottery tickets,.....	1	0	0	0	0
Private detective without license,.....	0	0	0	0	1
Profane and indecent language,.....	32	25	24	13	7
Promoting a lottery,.....	8	4	1	0	0
Promoting a lottery, assisting in,.....	1	0	0	0	0
Reckless driving,.....	1	2	4	19	5
Ringling false fire alarm,.....	1	0	2	1	0
Resisting an officer,.....	0	0	0	0	2
Runaways,.....	71	96	69	120	127
Selling fireworks without a permit,.....	0	0	0	1	0
Selling instrument to prevent conception,..	0	1	0	0	0
Signing false name to hotel register,.....	0	0	0	0	4
Sodomy,.....	0	0	1	0	0
Storing explosives without a permit,.....	0	0	0	1	0
Straggler from U. S. Navy,.....	0	0	0	1	0
Stubborn and disobedient,.....	8	10	24	22	19
Surrendered by bondsman,.....	1	1	0	0	0
Surrendered by probation officer,.....	2	0	0	0	0
Suspicion,.....	273	206	256	345	337
Unnatural act,.....	1	5	6	5	1
Unnatural act, attempt,.....	1	0	0	0	0
Vagrancy,.....	153	150	100	140	100
Violating alien labor law,.....	0	2	0	0	0
Violating anti-loafing law,.....	0	0	0	0	37
Violating bottle law,.....	0	7	0	2	6

	1914	1915	1916	1917	1918
Violating bicycle law,.....	0	2	0	0	0
Violating building law,.....	8	0	0	0	0
Violating city ordinances,.....	95	68	56	186	115
Violating corporation law,.....	1	0	0	0	0
Violating draft law,.....	0	0	0	11	232
Violating drug law,.....	10	17	12	6	1
Violating eight-foot law,.....	0	0	0	0	1
Violating employment law,.....	0	5	6	2	0
Violating food law,.....	19	3	0	0	7
Violating fowl law,.....	0	1	0	0	0
Violating game law,.....	0	0	0	0	3
Violating garbage law,.....	1	3	0	0	0
Violating gasoline law,.....	0	0	0	2	0
Violating health law,.....	2	4	0	0	0
Violating immigration law,.....	0	0	0	0	1
Violating insurance law,.....	1	0	0	0	1
Violating intelligence office law,.....	8	0	0	0	0
Violating jitney ordinance,.....	0	0	0	0	6
Violating labor law,.....	1	1	0	0	1
Violating license law,.....	0	0	1	4	0
Violating liquor law,.....	55	61	66	47	51
Violating Lord's day,.....	12	8	6	24	5
Violating lottery law,.....	0	3	0	2	0
Violating marriage law,.....	0	0	1	0	0
Violating match law,.....	0	4	0	0	0
Violating medical registration,.....	6	3	0	2	0
Violating milk law,.....	2	1	0	0	0
Violating motor law,.....	86	96	215	376	253
Violating opium law,.....	9	0	0	0	0
Violating park ordinance,.....	6	6	4	3	15
Violating probation,.....	34	86	109	162	114
Violating plumbers' law,.....	3	0	0	0	1
Violating poolroom law,.....	0	1	0	0	0
Violating quarantine law,.....	4	0	0	0	0
Violating school law,.....	0	2	1	2	0
Violating smoke law,.....	1	0	0	0	0
Violating state boiler inspection law,.....	0	3	1	0	0
Violating state electric law,.....	0	0	0	0	1
Violating a regulation of State Fire law,...	3	0	0	0	0
Violating traffic law,.....	35	32	25	64	20
Violating United States postal law,.....	0	0	1	1	0
Violating vehicle law,.....	1	0	0	0	0
Violating weights and measures law,.....	1	3	6	8	26
Walking railroad tracks,.....	69	37	37	32	38
Wearing U. S. Army uniform without right,	0	0	0	0	1
Witnesses, held by Court,.....	5	2	4	0	0
	4,509	3,954	4,082	5,091	3,988

RECAPITULATION.

	1914	1915	1916	1917	1918
Total crimes against the person,.....	240	215	225	273	253
Total crimes against property,.....	470	386	318	538	514
Total crimes against the public order,.....	4,509	3,954	4,082	5,091	3,988
	5,219	4,555	4,625	5,902	4,755

NATIVITY OF PRISONERS.

	Males.	Females.		Males.	Females.
Africa,.....	4	0	Italy,.....	249	10
Alaska,.....	1	0	Newfoundland,.....	2	0
Armenia,.....	8	0	Norway,.....	5	0
Austria,.....	117	5	Poland,.....	8	1
Bohemia,.....	2	0	Portugal,.....	10	0
Canada,.....	171	17	Roumania,.....	1	0
China,.....	4	0	Russia,.....	341	8
Cuba,.....	3	0	Scotland,.....	37	2
Denmark,.....	2	0	Servia,.....	1	0
England,.....	68	4	Spain,.....	2	0
Finland,.....	17	0	Sweden,.....	34	2
France,.....	8	0	Switzerland,.....	1	0
Germany,.....	25	1	Syria,.....	50	1
Greece,.....	76	0	South America,.....	1	0
Holland,.....	4	1	Turkey,.....	23	0
Hungary,.....	1	0	United States,.....	2,434	329
India,.....	1	0	Unknown,.....	378	21
Ireland,.....	234	24	West Indies,.....	5	1

Total, Males, 4,328; Females, 427.

Total, 4,755.

CLASSIFICATION OF AGES OF PRISONERS.

Ages,.....	10-20	21-30	31-40	41-50	Over 50	Unknown	Total
Males,.....	758	1,266	983	565	378	378	4,328
Females,...	91	188	75	30	18	25	427
Total arrests,.....							4,755

RECORD OF JUVENILE CASES.

OFFENSES.

Arson,.....	1	Neglected children,.....	33
Assault and battery,.....	4	Selling leased property,.....	1
Assault with dangerous weapon,.....	1	Selling newspapers without license,.....	1
Breach of the peace,.....	1	Stubbornness,.....	10
Breaking and entering,.....	38	Taking a team,.....	1
Breaking glass,.....	3	Trespass,.....	10
Cruelty to animals,.....	1	Truants,.....	35
Defacing a building,.....	5	Vagrancy,.....	3
Disturbing an assembly,.....	9	Violation of auto law,.....	7
Indecent exposure,.....	1	Violation of city ordinance,..	3
Injuring personal property,..	1	Violation of park ordinance,..	7
Larceny,.....	67	Violating rule of truant school,	3
Larceny in a building,.....	9	Violating traffic law,.....	1
Larceny from common carrier,. 4		Walking railroad track,.....	1
Total,.....			261

DISPOSITION OF CASES.

Committed to Lyman School,..	8	Filed,.....	75
Committed to Shirley,.....	8	Fined,.....	12
Committed to State Board of Charity,.....	5	Probation, Placed on,.....	101
Committed to Truant School,. 8		Suspended sentence to Lyman School,.....	10
Continued from day to day,..	12	Suspended sentence to Shirley,.....	11
Discharged,.....	11		
Total,.....			261

REPORT OF THE MATRONS.

	Female Prisoners.	Female Lodgers.	Lost Children.
December,	24	2	5
January,	27	1	3
February,	33	0	2
March,	36	0	17
April,	36	0	11
May,	37	1	18
June,	31	0	11
July,	21	0	14
August,	43	1	7
September,	29	4	9
October,	70	1	5
November,	40	3	9
	427	13	111

• OFFENSES.

Adultery,.....	36
Arson,.....	1
Assault,.....	4
Assault with dangerous weapon,.....	1
Breach of the peace,.....	5
Carrying a revolver,.....	1
Common night walker,.....	24
Common railer and brawler,.....	1
Crime against chastity,.....	1
Disorderly conduct,.....	13
Disorderly house keeping,.....	1
Drunkenness,.....	91
Fornication,.....	57
Fugitive from justice,.....	4
Insane,.....	19
Keeping house of ill-fame,.....	3
Larceny,.....	25
Lewd and lascivious cohabitation,.....	20
Lewd and lascivious conduct,.....	7
Runaways,.....	28
Selling leased property,.....	1
Stubborn and disobedient,.....	4
Suspicion,.....	12
Vagrancy,.....	20
Violating liquor law,.....	28
Violating probation,.....	18
Walking railroad tracks,.....	2
Total,.....	427

ARRESTS OF INDIAN ORCHARD POLICE STATION, NO. 2.

Assault and battery,.....	12
Assault with deadly weapon,.....	2
Bastardy,.....	1
Breach of the peace,.....	7
Breaking and entering,.....	1
Deserter,.....	1
Disturbing a meeting,.....	2
Driving away an automobile,.....	3
Driving away a team,.....	1
Drunkenness,.....	51
Evading railroad fare,.....	2
Fugitive from justice,.....	1
Insane,.....	2
Larceny,.....	10
Malicious mischief,.....	3
Non-support,.....	3

Peddling without license,.....	2
Retaining City Library books,.....	1
Runaways,.....	2
Suspicion,.....	3
Vagrancy,.....	1
Violating city ordinances,.....	2
Violating draft law,.....	4
Violating motor law,.....	7
Violating probation,.....	2
Violating weights and measures law,.....	6
Total,.....	132

TABULATED STATEMENT OF ARRESTS

For the Year Ending November 30, 1918.

MONTHS.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Totals
Males.....	318	356	258	336	354	281	458	437	358	355	426	391	4,328
Females.....	24	27	33	36	36	37	31	21	43	29	70	40	427
Minors.....	34	57	45	59	63	47	81	125	85	62	95	105	858
Adults.....	308	326	246	313	327	271	408	333	316	322	401	326	3,897
Residents.....	246	292	224	241	270	212	335	340	264	265	339	265	3,293
Non-Residents.....	96	91	67	131	120	106	154	118	187	119	157	166	1,462
Americans.....	223	235	202	254	291	221	327	321	269	248	333	292	3,216
Foreigners.....	119	148	89	118	99	97	162	137	132	136	163	139	1,539
Totals.....	342	383	291	372	390	318	489	458	401	384	496	431	4,755

DISPOSITION OF CASES.

Fined and Paid.....	40	59	19	46	80	44	46	111	49	55	62	50	661
Fined and Committed.....	13	19	7	13	13	14	21	84	26	32	36	22	250
Committed for Sentence.....	17	27	4	19	40	38	69	62	82	87	42	21	408
Probated.....	34	24	30	39	20	70	63	81	73	63	101	43	641
Continued.....	211	146	208	263	232	169	136	201	111	176	240	133	2,226
Appealed.....	3	4	2	5	3	3	4	9	5	1	9	6	54
Bound Over to Grand Jury..	6	4	5	1	3	3	4	9	5	2	3	1	46
Released.....	97	96	94	122	134	108	194	162	127	122	197	104	1,557
Discharged.....	7	10	4	7	6	8	3	18	12	7	13	6	101
Pending.....	63	161	83	132	137	78	57	123	61	70	152	149	1,266
Filed Away.....	15	34	22	31	38	37	29	40	35	45	44	36	406

REPORT OF
WATER COMMISSIONERS
FOR 1918

CITY OF SPRINGFIELD, MASSACHUSETTS,
MUNICIPAL WATER WORKS.
1919.

BOARD OF WATER COMMISSIONERS.

EDWIN A. BLODGETT, <i>Chairman</i> ,	Term expires February 1, 1921
CHARLES H. MULLIGAN,	Term expires February 1, 1920
ARTHUR A. ADAMS, <i>Mayor</i> ,	ex officio.

SUPERINTENDENT:

ALFRED E. MARTIN.

WATER REGISTRAR AND CLERK OF BOARD:

ALFRED R. HATHAWAY.

CHIEF ENGINEER:

ELBERT E. LOCHRIDGE

HONOR ROLL

WATER WORKS EMPLOYEES IN U. S. SERVICE.

"FOR HUMANITY."

CARLTON, LELAND G.,	Captain, Construction Division, Quartermasters' Corps.
CORMIER, GEORGE,	Camp Devens.
COVELL, HERMAN,	Died in Camp Green, Charlotte, N. C.
FORD, PERCY H.,	1st Class Machinist, U. S. Navy.
JANTELA, JAMES,	Camp Dix.
LADUCER, DELLO,	Enlisted from home town in Con- necticut.
MERRICK, HOWARD S.,	Wagoner, 304th Ambulance Co., 301st Sanitary Train, 76th Divi- sion.
MORSE, EDWARD L.,	Co. D., 3d Ammunition Train.
MORSE, WILLIAM D.,	Camp Devens.
OSDEN, RAYMOND E.,	Veterinary Hospital, No. 1.
REED, CLARENCE H.,	Seaman, Food Laboratory.
SHERWOOD, FREDERICK E.,	439th Aerial Squad.
WELCH, ROBERT T.,	Co. F., 301st Engineers.

WATER COMMISSIONERS' REPORT

WATER COMMISSIONERS' OFFICE.

ADMINISTRATION BUILDING.

SPRINGFIELD, MASS., December 30, 1918.

To the City Council of the City of Springfield, Mass.

GENTLEMEN:—The Board of Water Commissioners herewith submits the forty-fifth annual report of the Municipal Water Works, covering the fiscal year ending November 30, 1918.

The total *earnings* for the year (not cash receipts) have been as follows:—

Net water charges to private consumers,.....	\$473,127.46
Water service to municipal departments (uncollectible per city ordinance),.....	71,000.10
Water used by water works, and charged in its operating expenses,.....	84.85
Total,.....	\$544,212.41

The above shows a total increase of \$25,988.99 over the earnings of the preceding year, resulting from the following differences:—

Increase in <i>net</i> charges to private consumers,.....	+	\$27,021.30
Decrease in municipal service earnings,.....	—	1,032.96
Increase in water works self-service,.....	+	.65

Net resulting increase (as above),..... \$25,988.99

Included in the above increased earnings from private consumers, are \$13,689.21 from the domestic and commercial class within the city, \$11,750 from the industrial class within the city, and \$2,248.65 from the suburban consumers; while the earnings from builders' use have been less than in the preceding year.

The total *cash receipts* for the year, from all sources, amounted to \$515,558.68, of which \$470,113.46 was for water sales, \$44,765.15 was for miscellaneous sales (labor, material, etc.), and \$680.07 represented sundry refunds.

The cash receipts for water sales show an increase of \$26,851.29 over such receipts for the preceding year, while the receipts for labor and material sales represent a decrease of \$11,540.44.

At the beginning of the year the total receipts were estimated at \$515,000, or practically the same as the total results shown above, but the estimated amount for water sales was much less than the actual total proved to be, and the estimated amount for labor and material sales was much more than the actual total received for the year. As the building operations and consequent number of additional consumers were very small during 1918 it would appear that the goodly increase in water revenue was largely due to such operations and additional consumers of the year previous, and this similarly may be true of the results in any year.

All expenditures on account of the water works,—of whatever nature,—have been taken care of by the cash revenue, such expenditures including operating charges, maintenance, renewals, interest on water bonds and payments of matured bonds, annual contributions to sinking fund for Ludlow supply bonds, main pipe extensions, property and equipment, damages, etc.

The highly increased costs of labor and material, due to the world war, are necessarily reflected in all the expenditures for operating and maintaining the water works, such expenditures during the past year having shown an increased cost of more than 10 per cent over the high costs for the year before.

The cost of the "public safety expense," for the special and additional guarding of the supply during the war, is not included in the above.

It is generally conceded that we must look forward to a considerable period of high prices and business readjustment, and a study of the experience and conditions following similar events in the past indicates that some years may elapse before pre-war conditions and prices are again reached.

Outside of the operation and maintenance of the plant, all other activities have been strictly confined to only the actual necessities, in compliance with the government's requirements in carrying on the war.

Such work has included the distribution pipe changes and additions in consequence of the Dwight street widening, and the completion of the 16-inch pipe line in Bay street, from Berkshire avenue to State street, for improvement of the fire protection in that vicinity.

Because of the unusual conditions during the past two years much-needed betterments in the water works system have been necessarily postponed, but with the close of the war and consequent withdrawal of governmental requirements, it is thought that some of this work can be under-

taken during the coming year. A certain portion of the revenue for the past year, which under ordinary conditions would have been used for such work, has therefore been reserved as a fund for this purpose.

The total cost of additions to the plant, property, and equipment during 1918 has amounted to \$30,415.28, and includes the following principal items:—

\$9,058.14 for extension of distribution mains; \$3,963.94 for gates and hydrants, and for city-owned services and meters, \$8,495.70 for land and land expense, and \$5,396.05 for equipment, etc.

The book cost of the plant, property and equipment, as of November 30, 1918, amounts to \$5,681,039.40.

A study of the present and original values of all the properties of the municipal water works as of December 1, 1916, has been made by the engineering division and submitted to the Board of Water Commissioners, which has held a number of conferences for special consideration of the matter.

It is expected that a reasonable appraisal and unit analysis of the plant and property, together with proper depreciation charges, can soon be determined and adopted.

The 1918 payments on account of the water works bonded debt are as follows:—

Interest paid on Ludlow supply bonds, ...	\$10,375.00
Interest paid on Little River supply bonds, ...	66,685.00
Total interest paid, ...	<u>\$77,060.00</u>
Little River supply serial bonds paid, ...	89,000.00
Annual amount paid Sinking Fund for retirement of Ludlow supply bonds in 1920 and 1923, ...	21,593.54
Total payment on account of bonded water debt (all from 1918 cash receipts), ...	<u>\$187,653.54</u>

The water works bonded debt at the close of 1918 stands as follows:—

Ludlow supply sinking fund bonds maturing in 1920,.....	\$125,000.00
Ludlow supply sinking fund bonds maturing in 1923,.....	150,000.00
	\$275,000.00
Little River supply serial bonds (payments due annually),.	1,754,000.00
Total bonds outstanding,.....	\$2,029,000.00
Less sinking fund for Ludlow supply bonds,.....	198,173.53
Net bonded water debt November 30, 1918,.....	\$1,830,826.47

The net bonded debt a year ago amounted to \$1,947,856.23, showing a reduction during the past year of \$117,029.76, none of which has come from the tax levy of the city.

During the coming year of 1919 the requirements of the bonded water debt, to be taken care of by water works revenue, will be as follows:—

Interest on Ludlow supply bonds,.....	\$10,375.00
Interest on Little River supply bonds,.....	63,395.00
Total interest,.....	\$73,770.00
Little River serial bonds due,.....	89,000.00
Annual amount for sinking fund retirement of Ludlow supply bonds,.....	15,500.00
Total 1919 requirements,.....	\$178,270.00

During the past year the Little River system has continued to furnish a sufficient supply of water of the best quality to the consumers of Springfield, besides supplying the adjoining towns of Agawam and East Longmeadow throughout the year, as heretofore.

The town of West Springfield and the city of Chicopee have also been furnished with emergency supplies as needed, connections for this purpose being maintained in accordance with existing contracts.

An important feature of this system is the excellent fire protection afforded by the high pressure under which such supply is furnished.

The Ludlow reservoir system has furnished the town and village of Ludlow with the usual supply of good quality, during the year, such supply being filtered throughout the summer season.

At a special meeting of the Board of Water Commissioners held March 1, 1918, the following resolution was unanimously adopted, viz.:—

"Resolved, That,—WHEREAS, in the opinion of the Board of Water Commissioners the time is rapidly approaching when it will be necessary to construct a new dam or dams on the Westfield Little River watershed to enlarge the capacity of the city's water system;

"and in the opinion of the Board when such enlargement shall be made the fall of water on the river ought to be utilized for the production of power;

"and if such power is to be developed on said river such dam or dams ought to be planned with that purpose in view;

"THEREFORE, the Board of Water Commissioners respectfully recommends to the City Council to petition the General Court of Massachusetts for permission and authority to utilize the fall of water on any part of its water system for the production of power and such powers and authorities as may be needed to carry out such purpose."

This resolution was presented to the City Council, March 4, 1918, and the Mayor was authorized to petition the legislature for such permission and authority.

In consequence of such petition the City of Springfield was granted authority by the Legislature of Massachusetts to "utilize the fall of water on any part of its water system as the same now is or may hereafter become for the purpose of producing power or of generating electricity," and to transmit such power or electricity, or use the same itself, and sell the same to cities, towns and corporations in Hampden and Hampshire counties, under certain restrictions and conditions, all as set forth in Chapter 163 of the Special Acts of 1918, which also authorizes the issuing of bonds or notes to an aggregate amount of five hundred thousand dollars (\$500,000) for the purpose of paying the necessary expenses and liabilities incurred or to be incurred under the provisions of said act or of prior acts of 1906 and 1912.

This special act was approved May 24, 1918, and for future ready reference is herewith given in full as Appendix I. to this report.

For the purpose of supplying the proposed Belchertown state school with water the state commission on mental diseases was granted authority by legislative act in 1918 to take certain sources of supply and the water rights connected therewith within the limits of the town of Belchertown, said act providing that "if the source of supply selected shall be situated within the limits of any source of supply which has been acquired by the city of Springfield, acting under its statutory rights, the Commonwealth shall pay to the city of Springfield for the water diverted such sum as shall

be agreed upon by the commission on mental diseases and the board of water commissioners of the said city," etc.

This act is known as Chapter 224 of the General Acts of 1918, and is likewise given in full as Appendix II. to this report.

At the beginning of the year it was confidently hoped and expected that your Honorable Body could give the necessary consideration during the past year to the much-needed adjustment of the "matter of compensation to the municipal water works utility for water and service furnished to the various governmental departments of the city," but your attention has naturally been occupied with the many unusual questions arising by reason of the great war and its resulting conditions.

Like the proverbial "poor" this question is always with us, but your Board of Water Commissioners feel confident that when proper consideration is given to the matter there can be but one conclusion, and that such conclusion will be in conformity to the opinion and decision reached by engineers and public utility commissions all over the United States, who have made special study of such matters and whose opinions should certainly carry weight against the prejudiced mind of the average layman.

In connection with one of the recent utility cases before the Wisconsin Railroad Commission (one of the highest recognized authorities in the country on such matters) the following opinion was given:—

"A city operating its own water plant or electric plant should pay the utility at a reasonable rate for service rendered the city, and the utility should pay the city a reasonable amount as taxes and as interest on the city equity in the property of the utility, in order to avoid unjust discrimination in favor of either the taxpayers or the consumers."

Such an opinion from such a source should certainly mean something to a progressive city like Springfield.

The possible readjustment of water rates on a sound and equitable basis, and the above question of payment for municipal use of water, are matters so closely allied and have so vital a bearing on the revenue or earnings of the water works, that in the opinion of the Board of Water Commissioners they should be considered together; and it is hoped that such consideration will be given by your Honorable Body the coming year. A sound and reliable basis for the equitable readjustment of the one cannot be established without the right determination of the other.

It is surprising to hear otherwise well-informed but prejudiced persons dismiss this subject with the stock phrases of "robbing Peter to pay Paul"

and "taking from one pocket to pay into another," when by only a reasonable study of the matter with an open mind they would change such expressions to the more truthful ones of "making Peter restore to Paul what Peter has wrongfully withheld," and "placing in each pocket that which rightfully belongs there," so that neither one is profiting at the expense of the other, and each is receiving the "square deal" to which it is entitled.

The value of water service to the several municipal departments of the city during 1918, and amounting to \$71,000.10, is shown in the following tabulation:—

MUNICIPAL USE OF WATER—1918.

(~~1~~ Unmetered quantities in gallons, *estimated* from amounts, on basis of 6½ cents per 1,000 gallons,—or equivalent of 5 cents per 100 cubic feet;—per cent metered computed on quantities.)

Classification.	Amounts.	Gallons.	Memo.
Schools,.....	\$9,010.10	134,748,800	93% metered
Public Buildings (except schools),	2,681.50	40,267,600	86% metered
Public Parks,.....	3,449.60	51,609,600	75% metered
Public Playgrounds,.....	152.00	2,280,000	Unmetered
Municipal Market,.....	.30	4,500	Metered
Building Purposes (Streets and Engineering Department),..	300.00	4,488,300	Unmetered
Street Washing,.....	1,800.00	26,929,900	Unmetered
Sewer Department (flushing),..	6,090.00	91,112,700	Unmetered
Watering Tanks and Drinking Fountains,.....	641.60	9,599,000	2% metered
Total of above,.....	\$24,125.10	361,040,400	
Fire Hydrant Service,.....	46,875.00	(Not reducible to quantities)	At \$25 per hydrant
Total Municipal Use,.....	\$71,000.10	(As shown in Registrar's report)	

The continuation of the work of placing all municipal services possible under meters has, with all other work, been necessarily postponed during the past year, but it is hoped that such metering may be completed at an early date, leaving only the non-meterable uses to be estimated.

The use of the so-called "Stebbins Spring lot" on Liberty street has been tendered to and accepted by the Board of Supervisors for dumping purposes.

Attention is again called to the matter of delayed compensation from the Park Department for additional water works land taken on Armory street in the vicinity of Van Horn Park; also to the crying need of an adequate directory system in the administration building for the use and guidance of the public.

Both of these matters have needed proper consideration for several years and we deem it our duty to again direct your attention to them.

We feel that this report would be incomplete did we not make record of the thirteen employees of the municipal water works who have entered the service of their country, and your attention is therefore called to the accompanying "Honor Roll" as shown at the beginning of this report.

For the operating and other details in the various divisions of the municipal water works during the past year, reference is hereby made to the respective reports of the Registrar, the Superintendent, and the Chief Engineer, to the Board, these reports being attached to and made a part of this report to the City Council.

Respectfully submitted,

EDWIN A. BLODGETT,
CHARLES H. MULLIGAN,
FRANK E. STACY,

Board of Water Commissioners.

WATER REGISTRAR'S REPORT

DECEMBER 30, 1918.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—I herewith submit the annual report of the Water Registrar for the fiscal year ending November 30, 1918.

The water revenue has exceeded the estimate at the beginning of the year by about \$10,000, while the gross revenue has amounted to practically the estimated total. The operating expenses showed an increase of 10% over the previous year, instead of the 5% estimated. The gross expenditures for operation, maintenance, bonded debt requirements, etc. (not including construction and other special expenses), amounted to only about \$500 over the estimate for same.

A revision of the rules and regulations, in accordance with modern practice of other water utilities, has been undertaken in connection with the proposed sending of itemized bills instead of notices of same to consumers, as recommended last year. Progress has been necessarily slow, as other seemingly more important matters have demanded attention, but it is expected that a complete report upon the matter can be presented to the Board of Water Commissioners for consideration and adoption early in the coming year.

The various financial statements, comprising the Water Registrar's report, are here shown under the usual commercial arrangement of three principal groups with their respective sub-divisions of supporting details, in the following order:—

INCOME AND PROFIT AND LOSS ACCOUNT, in condensed form, followed by details of its several items.

BALANCE SHEET, in condensed form, followed by details of its several items.

SUNDRY STATEMENTS OF CASH RECEIPTS AND EXPENDITURES, and showing same under the several funds.

INCOME AND PROFIT AND LOSS ACCOUNT,
YEAR ENDING NOVEMBER 30, 1918.

(See Details of Items Following.)

Operating Revenue.

I.	Earnings from Sales of Water to Private Consumers,.....	\$474,439.47	
II.	Less Abatements, Refunds, etc.,.....	1,312.01	
			<u>\$473,127.46</u>
III.	Earnings from Sales of Water to City of Springfield:—		
	Earnings based on prescribed rates for water supplied were \$71,000.10,—but no payments were made therefor, as per city ordinance,.....		....
III-A.	Water used by Municipal Water Works and included in its operating expenses,		84.85
			<u>84.85</u>
	Total Operating Revenues (Water),..		<u>\$473,212.31</u>

Operating Expenses.

IV.	Source of Supply,.....	\$43,844.94	
V.	Transmission Expense,.....	3,880.88	
VI.	Distribution Expense,.....	48,031.28	
VII.	Commercial Expense,.....	13,031.99	
VIII.	General Expense,.....	31,015.97	
IX.	Undistributed Expense,.....	8,556.78	
			<u>\$148,361.84</u>
IX-A.	Public Safety Expense,.....	19,202.13	
			<u>\$167,563.97</u>
X.	Depreciation Reserve Charge (for Distribution System),.....	36,000.00	

Total Operating Expenses,..... 203,563.97

Operating Profit,..... \$269,648.34

XI.	Non-Operating Income (Sundry Sales, not Water),.....	4,596.52	
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Gross Income,..... \$274,244.86

Deductions from Gross Income.

XII.	Interest on Bonded Debt (<i>net</i>),.....	\$69,452.95	
			<u>69,452.95</u>
	Net Income (carried to Surplus),....		<u><u>\$204,791.91</u></u>

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1918.

Operating Revenue.

Earnings from Sales of Water to Private Consumers:—

	Earnings.	Abatements and Refunds.	Net Revenue.
Commercial Consumers (metered),.....	\$374,776.64	\$917.06*	\$373,859.58
Industrial Consumers (metered),.....	69,158.82	17.80	69,141.02
Institutional Consumers (metered),.....	5,767.76	194.71	5,573.05
Sales to Contractors (metered),.....	360.39	.22	360.17
Sales to Contractors (unmetered),.....	276.78	155.00	121.78
Miscellaneous Consumers (metered),....	2.42	.....	2.42
Miscellaneous Consumers (unmetered),..	5,616.02	20.74	5,595.28

Earnings from within City:—

(Metered),.....	\$450,066.03	\$1,129.79*	\$448,936.24
(Unmetered),.....	5,892.80	175.74	5,717.06

Total,.....	\$455,958.83	\$1,305.53*	\$454,653.30
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Commercial Sales, Little River Trans- mission Main (metered),.....	\$62.51		\$62.51
Commercial Sales, Ludlow (metered),...	2,257.92	\$5.62	2,252.30
Commercial Sales, Ludlow (unmetered),	150.00	.....	150.00
Commercial Sales, Wilbraham (metered),	1,001.56	.86	1,000.70
Industrial Sales, Ludlow Mfg. Co.'s Sys- tem (metered),.....	4,902.09	.....	4,902.09
Wholesale Service, Agawam (metered),..	3,492.37	.....	3,492.37
Wholesale Service, Chicopee (metered),..	3,567.98	.....	3,567.98
Wholesale Service, East Longmeadow (metered),.....	1,011.71	.....	1,011.71
Wholesale Service, Longmeadow (me- tered),.....	250.00	.....	250.00
Wholesale Service, West Springfield (me- tered),.....	1,784.50	.....	1,784.50

Earnings from outside City:—

(Metered),.....	\$18,330.64	\$6.48	\$18,324.16
(Unmetered),.....	150.00		150.00

Total,.....	\$18,480.64	\$6.48	\$18,474.16
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**Total Earnings from Sales to Private Con-
sumers, as per Items I. and II.:—**

(Metered),.....	\$468,396.67	\$1,136.27*	\$467,260.40
(Unmetered),.....	6,042.80	175.74	5,867.06

Total,.....	\$474,439.47	\$1,312.01*	\$473,127.46
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*\$596.11 of this amount = abatements account water allowed to run to prevent freezing.

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1918.

Operating Revenue.—Continued.**Earnings from Sales of Water to City of Springfield:—**

Almshouse and Annexed Buildings (metered),.....		\$824.95
Charities Department (Wayfarers' Lodge) (metered),		7.10
Drinking Fountains and Tanks (metered),.....	\$1.60	
" " " (unmetered),.....	640.00	
		641.60
Fire Department (buildings) (metered),.....	\$176.90	
" " " (unmetered),.....	285.00	
		\$461.90
" " Municipal Hydrant Service (1,875 hydrants,—average during year,—at \$25 each),..	46,875.00	
		47,336.90
Forestry Department (buildings) (unmetered),.....		30.00
Municipal Group (buildings) (metered),.....	\$284.55	
" " (heating plant) (metered),.....	73.90	
		358.45
Municipal Market (metered),.....		.30
Park Department (fountains, ponds, hose, etc.):—		
(Metered),.....	\$2,622.60	
(Unmetered),.....	797.00	
		3,419.60
Police Department (buildings) (metered),.....		122.65
Public Playgrounds (unmetered),.....		152.00
Public Sanitary (metered),.....		428.75
School Department (buildings) (metered),.....	\$8,376.00	
" " " (unmetered),.....	634.10	
		9,010.10*
Streets and Engineering Department:—		
Work-shop, Emery street (metered),.....	\$18.00	
Buildings and yard, Summer street (metered),...	353.05	
Building purposes (unmetered),.....	300.00	
Sewer flushing (609 flush gates—average during year—at \$10 each) (unmetered),.....	6,090.00	
Scavenger Division:—		
Incinerating Plant, Logan st. (metered),..	\$20.40	
" " West st.(metered)(off)	.25	
Buildings (unmetered),.....	86.00	
		106.65
Street sprinkling and washing (unmetered),.....	1,800.00	
		8,667.70
Total Earnings from Sales to City of Springfield, as per Item III. (unmetered),.....	\$57,689.10	
(metered),.....	13,311.00	
		\$71,000.10

*No payment is made for this amount by the City, as per City ordinance.

Municipal Water Works (water used at Broadway garage and
Colton street service buildings, and at No. 32 Birnie avenue,—
included in Operating Expenses), as per Item III-A. (metered),

\$84.85

*Schools closed 4 weeks during fuel shortage, and 6 weeks during influenza epidemic.

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1918.

Operating Expenses.

Source of Supply:—	Ludlow Supply.	Little River Supply.	Totals.
Superintendence,.....	\$880.00	\$1,018.36	\$1,898.36
Operating Labor,.....	2,617.17	4,643.70	7,260.87
Supplies and Expenses,.....	1,395.75	4,386.48	5,782.23
Sanitation,.....	312.56	3,143.65	3,456.21
Purification Labor,.....	1,744.53	14,415.30	16,159.83
Purification Supplies and Expenses,.....	355.60	6,478.57	6,834.17
Maintenance of Structures and Equipment,...	....	1,822.76	1,822.76
Maintenance of Purification System,.....	624.23	6.28	630.51
	\$7,929.84	\$35,915.10	

Total Source of Supply, as per Item IV., \$43,844.94

Transmission Expense:—	Ludlow Supply.	Little River Supply.	Totals.
Provin Mountain Reservoir,.....			\$2,741.37
Operating Labor,.....		\$1,685.74	
Supplies and Expenses,.....		1,055.63	
Patrolling Transmission Mains,.....		279.98	279.98
Maintenance of Transmission Mains,.....			717.87
Ludlow Main No. 1,..... \$19.05			
Ludlow Main No. 2,..... 118.89			
	\$137.94		
Little River Main,.....		579.93	
Maintenance of Telephone System,.....		141.66	141.66
	\$137.94	\$3,742.94	

Total Transmission Expense, as per Item V., \$3,880.88

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1918.

Operating Expenses.—Continued.***Distribution Expense:—***

Street Division, Operating Labor, ...	\$7,188.81
Meter and Fittings Division, Operating Labor, ...	4,031.52
Street Division, Supplies and Expenses, ...	1,037.44
Meters and Fittings Division, Supplies and Expenses, ..	287.28
Consumers Premises Expenses, ...	1,447.10
Maintenance of Mains, ...	2,455.61
Maintenance of Gates and Valves, ...	470.11
Maintenance of Services, ...	10,692.33*
Maintenance of Hydrants, ...	2,344.95
Maintenance of Sprinkler Supply Pipes, ...	2.47
Maintenance of Fountains and Troughs, ...	4.92
Maintenance of Meters, ...	6,909.55
Maintenance of Distribution System Buildings, Fix- tures and Grounds, ...	2,204.48
Maintenance of Foremen's House, 97 Colton St., ...	
Miscellaneous Distribution Expense, ...	8,791.59
Maintenance and Equipment, ...	49.46
Maintenance of Broadway Garage, ...	119.69
Maintenance of No. 32 Birnie Ave., ...	12.57
Electrolysis Survey, ...	1.40

Total Distribution Expense, per Item VI., ... \$48,031.28

Commercial Expense:—

Commercial Division, Salaries, ...	\$6,988.36
Commercial Division, Supplies and Expenses, ...	356.35
Reading Meters, Salaries, ...	3,956.13
Reading Meters, Supplies and Expenses, ...	952.86
Undistributable Inspection Expense, ...	778.29

Total Commercial Expense, per Item VII., ... \$13,031.99

*Of this amount \$6,725.44 is the cost of thawing frozen services.

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1918.

Operating Expenses.—Continued.

General Expense:—

Salaries of Officers and Assistants,.....	\$16,089.76
Salaries of General Office Clerks,.....	8,284.87
Printing and Stationery,.....	1,612.71
Miscellaneous General Office Supplies and Expenses,...	4,608.09
Maintenance of General Office Equipment,.....	30.73
Legislative Expense,.....	389.81

Total General Expense, as per Item VIII.,..... \$31,015.97

Undistributed Expense:—

Injuries and Damages,.....	\$388.91
Utility, Equipment Expense, Autos,.....	7,192.15
Utility Equipment Expense, Teams,.....	1,415.09
Stock and Stores Expense,.....	1,797.11
Suburban Supplies Expense,.....	78.16
Miscellaneous Expense,.....	283.35
Inventory Adjustments,..... (Credit)	2,597.99

Total Undistributed Expense, as per Item IX.,..... \$8,556.78

Public Safety Expense:—

Expense, account Public Safety, as per Item IX-A.,..... \$19,202.13

Depreciation Reserve Charge:—

Total, as per Item X.,..... \$36,000.00

Non-Operating Income:—

Sale of Products,—Wood, Sand, Hay, etc.,.....	\$2,446.49
Rent from Land, Buildings, etc.,.....	2,150.03

Total Non-Operating Income, as per Item XI.,..... \$4,596.52

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1918

Deductions from Gross Income.**Interest on Bonded Debt:—**

On \$125,000 Ludlow Supply 3½ per cent Bonds,.....	\$4,375.00
On \$150,000 Ludlow Supply 4 per cent Bonds,.....	6,000.00
Total, account Ludlow Supply Sinking Fund Bonds,.....	\$10,375.00
On \$390,000 Little River Supply 4 per cent Bonds, 1 month,.....	\$1,300.00
On \$370,000 Little River Supply 4 per cent Bonds, 11 months,.....	13,566.66
On \$1,148,000 Little River Supply 3½ per cent Bonds, 1 month,.....	3,348.34
On \$1,094,000 Little River Supply 3½ per cent Bonds, 11 months,.....	35,099.17
On \$210,000 Little River Supply 4¼ per cent Bonds, 11 months,.....	8,181.25
On \$200,000 Little River Supply 4¼ per cent Bonds, 1 month,.....	708.33
On \$95,000 Little River Supply 3½ per cent Bonds, 11 months,.....	3,047.92
On \$90,000 Little River Supply 3½ per cent Bonds, 1 month,.....	262.50
Total, account Little River Supply Serial Bonds,.....	65,514.17
Less Interest Received on Sinking Fund (account Ludlow Supply Bonds),.....	\$75,889.17
Total Interest on Bonded Debt Deducted, as per Item XII,.....	6,436.22
Total Interest on Bonded Debt Deducted, as per Item XII,.....	\$69,452.95

BALANCE SHEET—NOVEMBER 30, 1918.

*(See Details of Items Following.)***Assets.**

XIII.	Plant, Property and Equipment November 30, 1913,.....	\$5,123,753.00
XIII-A.	Additions to Plant, Property and Equipment since November 30, 1913,.....	557,286.40
XIV.	Stock and Stores,.....	\$5,681,039.40
XV.	Accounts Receivable,.....	132,011.95
XVI.	City Treasurer,.....	66,443.50
XVII.	Sinking Fund,.....	80,691.00
	Total Assets,.....	198,173.53
		\$6,158,359.38

Liabilities.

XVIII.	Bonded Debt,.....	\$2,029,000.00
XIX.	City of Springfield, Equity,.....	3,429,871.71
XX.	Current Liabilities,.....	
XXI.	Accrued Interest,.....	24,820.83
XXII.	Depreciation Reserve (for distribution system),.....	63,098.52
XXIII.	Surplus,.....	611,568.32
	Total Liabilities,.....	\$6,158,359.38

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1918.

Assets.**Plant, Property and Equipment, November 30, 1913***
(including changes since that date):—*In City.*

Original Purchase, including Franchise, Van Horn system, etc. (Balance),.....	\$239,805.50	
Broadway Real Estate (garage),.....	9,020.45	
Van Horn Property, land (additional to original purchase),.....	4,419.00	
Colton Street Property:—		
Land,.....	\$20,194.58	
Buildings,.....	63,853.64	
Equipment,.....	30,075.30	
		114,123.52
Utility Equipment and Furniture,.....	18,835.89	
Ludlow Main No. 1 (portion in city),.....	230,659.32	
Ludlow Main No. 2 (portion in city),.....	135,874.47	
Distribution System, including mains, gates, hydrants, meters, services, etc. (also including Orchard street 42" main, \$29,088.29),.....	1,385,263.82	
		\$2,138,001.97

Outside City.

Ludlow Transmission Main, No. 1,.....	\$153,772.88	
Ludlow Transmission Main, No. 2,.....	188,924.82	
Ludlow Supply, Land, Buildings, Structures and Equipment,.....	632,887.14	
Little River Supply:—		
Diversion Dam, Tunnel and Road,.....	357,487.81	
Filtration System,.....	328,572.01	
Provin Mountain Reservoir,.....	186,036.02	
Borden Brook Reservoir,.....	215,388.95	
42" Pipe Line,.....	497,130.12	
54" Pipe Line,.....	16,278.41	
Connecticut River Crossing,.....	100,024.97	
Telephone Line,.....	4,098.72	
Sanitation During Construction,.....	7,369.08	
Power Diversion,.....	117,598.21	
Forestation,.....	1,870.03	
Land on Watershed, North Blandford, etc.,...	36,036.28	
Miscellaneous Construction Expenses (engineering, legal, etc.),.....	120,806.96	
Expenditures, account possible supplies,.....	21,468.62	
		2,985,751.03

Total, as per Item XIII.,..... **\$5,123,753.00***

*Book costs, subject to revision upon completion of appraisal and revised cost analysis.

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1918.

Assets.—Continued.**Additions to Plant, Property and Equipment since
November 30, 1913:—**

Additions to Plant, Property and Equipment in 1914,.....	\$189,991.48
Additions to Plant, Property and Equipment in 1915,.....	71,125.28
Additions to Plant, Property and Equipment in 1916,.....	194,250.16
Additions to Plant, Property and Equipment in 1917,.....	71,504.20
	\$526,871.12

Additions to Plant, Property and Equipment in 1918:—**Land:—**

Little River Supply,..... \$8,495.70

Buildings, Fixtures and Grounds:—

Little River Supply Buildings,
(Borden Brook Barn),..... \$242.39

Little River Purification System,..... 92.98

Distribution System Buildings, Fix-
tures and Grounds,..... 83.18

Stores Division Buildings, Fixtures
and Grounds,..... 54.26

472.81

Distribution System:—

Mains,..... \$9,058.14

Gates,..... 746.74

Hydrants,..... 3,229.23

Meters,..... 6.00

13,040.11

General Office Equipment,..... 210.90

Shop Equipment and Tools,..... 1,602.65

Utility Equipment,..... 3,582.50

\$27,404.67

Property Costs, account Public Safety,..... 3,028.64

\$30,433.31

Less Credit:—

Services (account Permanent Paving),..... 18.03

Net Total Additions to Plant, Property and Equipment, 1918, ... 30,415.28

Cost of Total Additions to Plant, Property and Equipment
since November 30, 1913, as per Item XIII-A,..... \$557,286.40

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1918.

Assets.—Continued.**Stock and Stores (as per Inventory):—**

Cast-iron Pipe Stock,.....	\$74,823.32
Wrought-iron Pipe Stock,.....	14,147.13
Meter Stock,.....	21,669.54
Stores and Supplies,.....	1,549.50
Small Tools Stock,.....	9,168.99
Engineers' Supplies,.....	609.08
Filter Supplies (Ludlow),.....	1,166.61

\$122,934.17**Little River Operating Supplies:—**

At Borden Brook Reservoir,.....	\$593.87
At North Blandford,.....	415.08
At West Parish Filters,.....	3,400.63
At West Parish Filters (laboratory),..	4,568.17
At Provin Mountain Reservoir,.....	100.03

9,077.78**Total Stock and Stores, as per Item XIV.,..... \$132,011.95****Accounts Receivable:—**

Consumers' Accounts Committed to City Collector,—	
Balance Uncollected November 30, 1917,.....	\$67,528.38
Committed to City Collector during Present Year, ..	515,321.55
	\$582,849.93
Collected by City Collector and paid to Treasurer	
during Present Year,.....	\$514,878.61
Abated to City Collector during Present Year,.....	2,064.18
	516,942.79

Consumers' Accounts Committed to City Collector,—	
Balance Uncollected November 30, 1917 (in-	
cludes December 1, 1918, commitment),.....	\$65,907.14
Consumers' Accounts not yet Committed to City	
Collector,—Miscellaneous Sales Charges, etc.,..	536.36

Total Accounts Receivable, as per Item XV.,..... \$66,443.50

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1918.

Assets.—Continued.

City Treasurer (see Cash Summary):—

Cash in hands of City Treasurer,—Revenues (balance transferred to Sinking Fund),.....	.....
Cash in hands of City Treasurer,—Lombard Reservoir Lot Fund,.....	\$691.00
Cash in hands of City Treasurer,—Reserve for Deferred Work,.....	80,000.00

Total City Treasurer, as per Item XVI.,..... \$80,691.00

Sinking Fund (Account Ludlow Supply Bonded Debt):—

Balance in hands of Sinking Fund Commissioners November 30, 1917,.....	\$153,736.99
Net surplus transferred from Water Works cash revenue of 1917,.....	16,406.78

\$170,143.77

Interest earnings and additions credited by Sinking Fund Commissioners during 1918 (net),....	6,436.22
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Balance in hands of Sinking Fund Commissioners, as per their report of November 17, 1918,.....	\$176,579.99
Net surplus from Water Works cash revenue of 1918,.....	21,593.54

Total Sinking Fund, as per Item XVII.,..... \$198,173.53

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1918.

Liabilities.**Bonded Debt:—**

	Outstanding Nov. 30, 1917.	Paid During Present Year.	Outstanding Nov. 30, 1918.
Ludlow Supply 3½ per cent Sinking Fund Bonds, due October 1, 1920,.....	\$125,000.00	.....	\$125,000.00
Ludlow Supply 4 per cent Sinking Fund Bonds, due October 1, 1923,.....	150,000.00	.....	150,000.00
Little River Supply 4 per cent Serial Bonds,.....	390,000.00	\$20,000.00	370,000.00
Little River Supply 3½ per cent Serial Bonds,.....	1,243,000.00	59,000.00	1,184,000.00
Little River Supply 4¼ per cent Serial Bonds,.....	210,000.00	10,000.00	200,000.00
	<u>\$2,118,000.00</u>	<u>\$89,000.00</u>	

Total Bonded Debt, as per Item XVIII.,..... \$2,029,000.00

City of Springfield Equity:—

Balance November 30, 1917,.....	\$3,310,478.43
Added during Present Year for new Construction paid from 1918 Revenue,.....	30,393.28
Added during Present Year for Bonds paid from 1918 Revenue,.....	89,000.00

Total City of Springfield Equity, as per Item XIX.,..... \$3,429,871.71

Current Liabilities:—

Total Current Liabilities, as per Item XX.,.....

Accrued Interest:—

Accrued Interest on Ludlow Bonds,.....	\$1,729.17
Accrued Interest on Little River Bonds,.....	23,091.66

Total Accrued Interest, as per Item XXI.,..... \$24,820.83

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1918.

Liabilities.—Continued.

Depreciation Reserve (for Distribution System):—

Aggregate of amounts credited to this account (and charged to Operating Expenses under "Depreciation Reserve Charge") for five years of 1914, 1915, 1916, 1917, 1918, at \$36,000 per year,..... \$180,000.00

Less Cost of Distribution System Renewals charged to above "Reserve" account during the five years, as follows:—

In 1914 (see 1915 report),.....	\$72,147.60	
In 1915 (" " "),.....	20,243.19	
In 1916 (" 1916 "),.....	2,370.09	
In 1917 (" 1917 "),.....	11,840.52	
In 1918 as follows:—		
Distribution Mains,.....	\$6,143.42	
Gates and Hydrants,.....	4,156.66	
	<u>10,300.08</u>	
		<u>116,901.48</u>

Total Depreciation Reserve, as per Item XXII.,..... \$63,098.52

Surplus Account:—

Balance November 30, 1917,.....	\$526,597.61
Net Income for 1918 from Profit and Loss Account,.....	204,791.91
Delayed Gains in Prior Periods,.....	5.44
	<u>\$731,394.96</u>

Delayed Losses in Prior Periods (charged off in 1918),..	\$433.36
Transfer to City of Springfield Equity Account for new Construction paid from 1918 Revenue,.....	30,393.28
Transfer to City of Springfield Equity Account for Bonds paid from 1918 Revenue,.....	89,000.00
	<u>119,826.64</u>

Total Surplus Account, as per Item XXIII.,.... \$611,568.32

CASH SUMMARY.—1918.

ITEMS.	Water Works Revenue.	Reserve Fund for Deferred Work.	Lombard Reservoir Lot Fund.	TOTAL.
Receipts—1918.				
Collections Paid to City Treasurer by City Col- lector:—				
For Water Accounts,.....	\$470,113.46 }	.....	.....	\$514,878.61
For Misc. Sales,.....	44,765.15 }			
For Refunds (sundry ac- counts),.....	680.07	.....	.....	680.07
Total Receipts,.....	\$515,558.68	.....	.....	\$515,558.68
Less Transfers to Reserves,	80,391.00	\$80,000.00	\$391.00	.....
Balance in hands of City Treasurer, Nov. 30, 1917,	.....	.....	300.00	300.00
Total Receipts and Bal- ances,.....	\$435,167.68	\$80,000.00	\$691.00	\$515,858.68
Expenditures—1918.				
Bills Approved and Paid, Pay Rolls Approved and Paid,.....	\$97,530.59 } 149,983.55 }	.....	.....	\$247,514.14
Interest Paid on Ludlow Bonds,.....	\$10,375.00 }			
Interest Paid on Little River Bonds,.....	66,685.00 }	.....	.....	166,060.00
Little River Serial Bonds Paid,.....	89,000.00 }			
Amount for Sinking Fund (account Ludlow Supply Bonds),.....	21,593.54	.....	.....	21,593.54
Total Expenditures,.....	\$435,167.68	.....	.....	\$435,167.68
Balances in hands of City Treasurer, Nov. 30, 1918,.....	.....	\$80,000.00	\$691.00	80,691.00
Total Expenditures and Balances,.....	\$435,167.68	\$80,000.00	\$691.00	\$515,858.68

DIVISION OF WATER WORKS CASH EXPENDITURES.—1918.

<i>From Revenue.</i>	
Operating Expenses,.....	\$167,563.97
Less amounts charged in Operating Expenses,—	
not cash:—	
Water used by Water Works,.....	\$84.85
Rents of houses occupied by em-	
ployees,.....	1,531.34
	<u>1,616.19</u>
	\$165,947.78
Construction:—	
Land:—	
Little River Supply,.....	\$8,495.70
	<u>\$8,495.70</u>
Buildings, Fixtures and Grounds:—	
Little River Supply Buildings	
(Borden Brook Barn),.....	\$242.39
Little River Purification System,...	92.98
Distribution System Buildings,	
Fixtures and Grounds,.....	83.18
Stores Division Buildings, Fix-	
tures and Grounds,.....	54.26
	<u>472.81</u>
Distribution System:—	
Mains,.....	\$9,058.14
Gates,.....	746.74
Hydrants,.....	3,229.23
Meters,.....	6.00
	<u>\$13,040.11</u>
Less Credit, account Services, Perma-	
ment Pavement,.....	18.03
	<u>13,022.08</u>
General Office Equipment,.....	210.90
Shop Equipment and Tools,.....	1,602.65
Utility Equipment,.....	3,582.50
	<u>\$27,386.64</u>
Property Costs, account Public Safety,.....	3,028.64
	<u>\$30,415.28</u>
Total Added to Plant, Property and Equip-	
ment, 1918,.....	\$30,415.28
Less Reversions deducted from Plant Account of	
Nov. 30, 1913,.....	22.00
	<u>30,393.28</u>
Net Total Construction paid from Revenue,.....	30,393.28
Forward,.....	<u>\$196,341.06</u>

DIVISION OF WATER WORKS CASH EXPENDITURES.—1918

From Revenue.—Continued.

Forward,.....		\$196,341.06
Renewals:—		
Street Work (Main Pipe),.....	\$6,143.42	
Street Work (Gates and Hydrants),.....	4,156.66	
		10,300.08
Cost of Sales (services, meters, repairs, etc., charge- able to consumers),.....		37,472.42
Treasurer's Advance for 1918 petty cash expenses at office,.....		500.00
Sundry overpayments, etc. (amounts deducted from operating expenses, when refund was made),...		180.07
Increase in stock and stores November 30, 1918, over November 30, 1917,.....		2,720.51
Total Approved Bills and Pay Rolls paid (from Revenue),..		\$247,514.14
Interest Payments,.....	\$77,060.00	
Bond Payments,.....	89,000.00	
Sinking Fund Payments,.....	21,593.54	
		187,653.54
Total Bonded Debt Requirements,.....		
Total Cash Expenditures,.....		\$435,167.68
Transferred to Reserve Fund for Deferred Work,.....		80,000.00
" " Lombard Reservoir Lot Fund,.....		391.00
Total Cash Payments from 1918 Revenue,.....		\$515,558.68

APPENDICES.—1918.

Tabulations and statistics, including a summary in form as recommended by the New England Water Works Association, will be found in the appendices to this report.

Respectfully submitted,

ALFRED R. HATHAWAY,
Water Registrar.

BOARD OF WATER COMMISSIONERS, December 30, 1918.
Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

SUPERINTENDENT'S REPORT

DECEMBER 30, 1918.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—I herewith submit the forty-fifth annual report of the Superintendent, being for the year ending November 30, 1918.

The amount of pipe laid, the number of gates and fire hydrants set, the amount of pipe discontinued, and the number of gates and fire hydrants taken out, are shown as follows:—

MAIN PIPE, GATES AND HYDRANTS ADDED—1918.

NUMBER.	Extensions.	Renewals.	Private.	TOTALS.
Feet of pipe laid, 1918,.....	2,786	2,682	1,226	6,694
Added,—account of previous years,.....	0	0	0	0
Total pipe added, 1918, ..	2,786	2,682	1,226	6,694
Gates set, 1918,.....	80	58	20	158
Added,—account of previous years,.....	0	0	1	1
Total gates added, 1918, ..	80	58	21	159
Fire hydrants set, 1918,...	7	60	0	67
Added,—account of previous years,.....	0	0	0	0
Total fire hydrants added, 1918,.....	7	60	0	67

MAIN PIPE, GATES AND HYDRANTS TAKEN OUT OR ABANDONED—1918.

NUMBER.	TOTALS.
Feet of pipe, ...	3,161
Gates, ...	65
Fire hydrants, ...	63

There are now in use 227.59 + miles of supply and distribution mains, a net addition of .67— miles the past season.

We have laid 2,786 feet of main pipe at a cost of \$9,058.14, including ordinary extensions with gates and connections.

It is the same old story as with the two previous years with regard to replacements and new installations, no new work having been ordered excepting the work in Dwight street caused by its widening. This consisted of the relaying of the 10" main on the easterly side of the street from Lyman street to one hundred feet or more south from Harrison avenue and removing the old one for the same distance; laying a new 8" main from Lyman to Bridge street on the west side, a distance of 839 feet; and a new 10" main from Harrison avenue to State street on the same side, a distance of 1,015 feet, abandoning 689 feet of old 6" pipe from Harrison avenue to Sanford street on the west side of the old street, the 10" above mentioned taking its place. The above is the principal work done during the past year and the most important, and was completed at a cost of \$12,226.81.

There were laid in Bay street 1,244 feet of 16" main, completing the connection between Berkshire avenue and Boston road, and reinforcing the fire protection in the district known as Breckwood, which was much needed. The 8" pipe in Longhill street had to be moved on account of widening and straightening the street, also 247 feet of 6" pipe were laid in Crescent hill, which practically completed the pipe laying work of the season, and the total cost of all such all was \$17,105.34, including the Dwight street portion.

The annually recurring story of labor troubles crops up again, and it has become so chronic that but a passing notice need be taken of it. As prophesied in my last report, wages have been raised again and again during the year, and the laborers are now receiving \$3.52 per day of eight hours or 44 cents per hour. Notwithstanding the raises as above noted,

our men have left us until hardly a handful so to speak remain, and we were obliged to resort to a contractor's gang again in order to complete the Dwight street work on time. The call to the colors also has taken its quota, and, to cap it all, the prevailing illness of the last three months has also called many, and, take it all in all, the department has been barely able to keep its head above water as regards its laboring force, and the writer is quite pessimistic with regard to the immediate future.

New England was hard hit by very severe cold weather, commencing the latter part of December, 1917, and lasting until March, 1918, during which time an epidemic of frozen house connections and main pipes afflicted many towns and cities, causing much trouble, worry and hard work to water works officials and employees. In this city there were upwards of 800 frozen services and 1,000 frozen meters, and it was necessary to resort to the old watering cart and galvanized iron can to deliver water to many of our customers. Only one main pipe larger than 2" in diameter was frozen and that did not cause much inconvenience, as its location was such that water could be supplied from several directions, and only a few hours' work was necessary to repair the break caused by the freezing. Other cities, however, were much more afflicted than we, the city of Providence, R. I., reporting at the March meeting of the New England Water Works Association in Boston, that up to that date over 5,000 services and 600 mains had been reported frozen in that city. The total expense to this department for thawing services and repairing leaks caused by the freezing, also including the delivery of water by team and can, was \$6,725.44. An electric outfit has been ordered for thawing frozen pipes, and if it is not commandeered by the government, it is expected that should such an epidemic occur again, we can at least keep the pipes thawed out as fast as they freeze, so that there will be no necessity of resorting to hand delivery of water again.

Sixty-seven hydrants have been installed on lines of extensions and replacements, of which number 7 are additional and 60 renewals.

One hundred fifty-eight gates have been set, of which number 100 are additional and 58 renewals.

Eighty-five new taps have been made for service pipes and 328 have been replaced, making a total of 413; 55 old ones have been abandoned and cut off, leaving a net total increase of 30 for the year. This, plus last year's total of 15,611, makes the number of taps now connected to the system 15,641.

There have been 136 leaks in service pipes, exceeding the number in last year's report by 46, many of which were caused by the excessive cold weather and consequent freezing of the pipes in question.

There have been 45 leaks in main pipes during the year, an average of .20— per mile of main pipe in use. The following table shows the sizes of pipe in which these leaks occurred:—

Kind and Size of Pipe.	1½"	1½"	2"	4"	6"	8"	10"	12"	16"	20"	24"	42"	Totals.
Wrought-iron,.	1	3	2	..	..	..	..	..	..	..	..	..	6
Cast-iron,.....	..	..	..	4	12	6	2	7	3	1	3	1	39
Total leaks,.	1	3	2	4	12	6	2	7	3	1	3	1	45

Twenty-four of these leaks were at defective joints; one was a broken Smith sleeve; 13 were at hydrant connections; 3 were at hydrant branches broken by frost, and 4 were from cracked pipe.

Hydrants have as usual been regularly inspected and kept in working condition.

The gate system has been inspected and gates operated, besides keeping up with the street department work where gate boxes had to be raised or replaced in connection with new paving.

In addition to this, the gang has inspected and relocated upwards of 1,300 stop boxes on service pipes.

Our service building and real estate connected therewith are in good condition and we have on hand pipe and hydrants enough to probably cover our next season's work. It having been decided to make the attempt to do all our work with motor trucks, our horses have been transferred to the supply division of the system, and the distribution division is now fully motorized, and in all probability horses will never be used again except possibly for a short time during some heavy snowstorm, at which time undoubtedly horses can be hired for the occasion. It is proposed to make the stable in our building an automobile repair and paint shop, and approximate figures have been obtained for the building of an elevator sufficiently large to accommodate the heaviest of our trucks. It is hoped by the writer that this work may be accomplished during the early part of the coming year.

METER WORK.

The meter work has followed practically the same routine as in former years, caring for and repairing all that have needed such attention, and

setting new ones in newly built property. Approximately 4,084 meters have been repaired and tested and 228 new ones set, making a total of about 4,312 meters handled during the year.

The shortage of labor has made it practically impossible to do any work on the setting of detector meters on old fire protection services. Three such meters have been set during the year in connection with the Dwight street widening, and one other in another part of the city. If there should be any betterment in the labor situation, it is hoped to accomplish more during the coming season.

STATISTICS.

In the appendices to this report will be found tables showing the pipe laid, gates and hydrants set, pipe, gates and hydrants taken out, etc.

Respectfully submitted,

ALFRED E. MARTIN,
Superintendent.

BOARD OF WATER COMMISSIONERS, DECEMBER 30, 1918.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

CHIEF ENGINEER'S REPORT

DECEMBER 30, 1918.

Board of Water Commissioners, Springfield, Mass.

GENTLEMEN:—The activities of this division have been completely modified by war conditions so that the year has been one abounding in problems of operation, with substantially no construction work undertaken or planned. Conditions have been met as they appeared, whether it was a sudden demand for a considerably increased amount of water, or a shortage of labor needed for the work in hand, and there has been no interruption in the delivery of a uniformly good water all of the time.

The demand for water has far exceeded any previous records. The amounts needed per day are larger than on any previous day in the history of the supply, and the amount used per month during each of the first nine months of the year was greater than in any previous month on record. An average of 13,341,000 gallons of water was used each day throughout the year, which is an increase of 10.08% over 1917. It is difficult to say whether this increase, due in part, at least, to abnormal conditions will be maintained, and whether the population brought in by these conditions will be absorbed in the normal activities of the city. If this is to be the case, the time will not be long distant when the developed capacity of our Little River supply will need to be augmented by additional reservoirs, filter beds and ultimately by additional pipe lines. These considerations brought about a study of the possibilities of additional storage reservoirs, and it was felt that such plans should take into consideration the development of any power, which, as a natural adjunct of the structures, might be utilized. Permission was, accordingly, asked of the Massachusetts legislature to utilize on and between the dams constructed for this purpose the fall of water for the manufacture of electricity. As a result an act was passed (Chapter 163—1918) which is printed in full in Appendix I. This enables the city to develop and sell electric power which could be generated by the water actually needed by the city without the economic waste which would result from the use of water purely for domestic purposes. Where such power can be economically and profitably obtained, plans for new works should include a power development, but it would not be wise to go into the business of generating power except in this manner. Any consideration for an increase in the supply can now be planned with this feature in mind. The Little River

supply has at present a developed capacity of about fifteen million gallons daily, so that it will be seen that an increase of water consumption similar to that which has prevailed for the last three years would put the city in need of additional capacity within a similar period in the future. Such construction need not be planned definitely until it is determined that the present high use of water is being maintained, or an additional increase is indicated.

Agawam and East Longmeadow of the suburban towns supplied, have now used the Little River water for five years, their contracts expiring with this year. Both have indicated a desire to continue the service. The city of Chicopee and the town of West Springfield have both needed water at times of emergency during the year, and a connection for such emergency has also been maintained for Longmeadow. The town of Ludlow has been supplied throughout the year from the Ludlow system. The filtration plant at Ludlow reservoir was operated during the summer months to keep this water satisfactory. The experiment of using wood cut on city land near by, instead of coal, for the operation of the boilers at this plant was tried with satisfactory results.

Appropriations have been made by the State for the establishment of a new school for feeble-minded at Belchertown. Their advisers have stated that the only possible satisfactory supply to be obtained for water is in the valley of the Jabish Brook, one of the watersheds of the city of Springfield, and application has been made by them for permission to secure such a supply. Rights protecting the city of Springfield were incorporated in the act and it is now proposed that this supply be taken by them in such a manner that the normal development of water for Springfield and surrounding towns in this valley should not be jeopardized. It is probable that a satisfactory agreement will be entered into within a short time. A copy of the act (Chapter 224—1918) for the water supply of the Belchertown school is given in Appendix II.

Very extensive studies in the valuation of the water works plant have been carried on through the year and are now substantially completed. It is to be hoped that within a very short time figures be adopted as a basis for present value and that arrangement be made by which all water used and services rendered be paid for, whether the customer be a city institution or building, or a private concern, thus permitting an equitable adjustment of rates.

The purchase of 320 acres of land near Blair pond in Blandford is the only addition to the land owned by the city in connection with its water supply.

The standing wood and timber on the lot known as the "Stebbins'

Spring" lot adjoining Liberty street, which was formerly a water supply, but is now within the populated section of the city, was sold, and arrangements have been made with the Board of Supervisors to have the lot filled and graded in conformity with the surrounding land.

A number of men from this division have gone into the service of their country, among them being Mr. Leland G. Carlton, who with the rank of captain has been serving in the Construction Division, Quartermasters Corps, Washington, and been engaged on the water supplies of the cantonments, internment camps, forts and hospitals over the country.

The following is a statement of the principal features of the supply during the year 1918:—

Little River Supply, Amounts used:—	Gallons.	Increase.
East Longmeadow, ...	9,955,600	0.42%
Agawam, ...	46,781,100	20.66%
West Springfield, 12 days, ...	5,136,125	
Chicopee, 48 days, ...	25,679,873	
Springfield and West Wilbraham, ...	4,733,420,000	9.37%
Total from Little River, ...	4,860,970,000	10.08%

Ludlow Supply:—

Ludlow village (Ludlow Mfg. Associates),	80,956,000	8.90%
Ludlow (direct), ...	8,797,838	22.90%

Little River Supply, Use per day:—

	Amount. Gallons.	Per Capita.	Population.
East Longmeadow, ...	27,276	25	1,085*
Agawam, ...	128,170	25	5,188
Springfield and West Wilbraham, ...	12,970,000	116	111,898
Metropolitan district, ...	13,320,000		

Ludlow Supply:—

Ludlow, ...	246,000	35	7,034
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Gallons

Maximum daily use, February 5, ...	17,980,000
Minimum daily use, December 25, ...	10,000,000

* Population 2,170; 50% supplied.

It will be seen by an examination of these figures that the highest amount used on one day this year far exceeds that used on any previous day. The figures used for the population of Springfield have been those of the normal increase as indicated by the state and the national census, and it is entirely probable that they are some ten to twenty thousand under the true statement of the size of the city, and it is more probable that the per capita consumption determined over a period of years of substantially

100 gallons has remained near this figure rather than that it has jumped to 116 gallons as indicated by the figures given.

Details of the operation of the West Parish filters showing the quality of the water on each day of the year, together with costs and other matters of interest, are given in an appendix, as are also given the analyses made monthly by the State Department of Health.

Borden Brook, the storage reservoir of the Little River system, was drawn upon for water on 121 days and the total reduction of level amounted to 13.3 feet, which is almost the same as the amount drawn in the previous year. At the lowest point 1,632,000,000 gallons remained in storage.

The following appendices give in detail the statistics of the year:—

- XV. Summary of Total Supply.
- XVI. Daily Use of Water from Little River Supply,—All towns and City.
- XVII. Daily Use of Water by East Longmeadow.
- XVIII. Daily Use of Water by Agawam.
- XIX. Daily Use of Water by West Springfield.
- XX. Emergency Use of Water by Chicopee.
- XXI. Daily Use of Water by Springfield.
- XXII. Daily Use of Water by Ludlow Village (Ludlow Manufacturing Associates).
- XXIII. Operating Details of West Parish Filters.
- XXIV. Operating Costs of West Parish Filters.
- XXV. Rainfall Statistics for the Year.

Respectfully submitted,

ELBERT E. LOCHRIDGE,
Chief Engineer.

BOARD OF WATER COMMISSIONERS, DECEMBER 30, 1918.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

APPENDIX TO
WATER COMMISSIONERS' REPORT
FOR 1918

APPENDIX I.

LEGISLATIVE ACT FOR UTILIZING SPRINGFIELD WATER
SUPPLY FOR THE PRODUCTION AND TRANSMISSION
OF POWER OR ELECTRICITY.

[SPECIAL ACTS OF 1918—CHAPTER 163.]

AN ACT AUTHORIZING THE CITY OF SPRINGFIELD TO GENERATE ELECTRICITY BY MEANS OF ITS WATER SYSTEM AND TO USE OR SELL THE SAME.

Be it enacted, etc., as follows:

SECTION 1. The city of Springfield, acting by its board of water commissioners, may utilize the fall of water on any part of its water system as the same now is or may hereafter become for the purpose of producing power or of generating electricity, and may transmit such power or electricity by wires or other suitable means, or may use the same itself, with the same rights and subject to the same restrictions and conditions as persons or private corporations, and may sell the same to any city, town or corporation within the counties of Hampden or Hampshire lawfully engaged or authorized to engage therein in the transmission or sale of electricity or in the operation of a railroad, street railway or electric railroad, or to any person or corporation in any town in either of said counties in which there is no electric lighting plant engaged in the distribution and sale of electricity, or to any person or corporation in any city or town in either of said counties in which there is such an electric lighting plant, provided that the city, town or corporation operating such plant shall consent thereto. With respect to the distribution by said city within its limits of electricity for municipal use or for the use of its inhabitants, except for use in its water system, the right hereby granted shall be subject to compliance by the city with the provisions of chapter seven hundred and forty-two of the acts of nineteen hundred and fourteen, and acts in amendment thereof and in addition thereto.

SECTION 2. The towns of Blandford and Granville shall have a prior right to purchase said electricity, in case there is a demand for more than the total amount of electricity available for sale by said city, upon such terms and for such time, not exceeding ten years, as may be agreed upon between the board of water commissioners of the city and the selectmen of the said towns, or, in the absence of agreement, as may be fixed by the board of gas and electric light commissioners upon the application of either party: *provided*, that the said towns shall take such electricity through a meter installed by them at any power house or plant constructed by the city under the provisions of this act, or at any point on its transmission lines, as may be agreed upon between the board of water commissioners of the city and the selectmen of the towns, or either of them, and, in case of failure so to agree, as may be determined by the board of gas and electric light commissioners; and *provided, further*, that said town or towns shall make application therefor to the board of water commissioners within six

months after the city shall have given notice in writing to the towns of the date when it will be ready to furnish electricity under the provisions of this act. Such prior right may be enforced by an order of the board of gas and electric light commissioners upon proper application therefor by the selectmen of the said towns, or either of them.

SECTION 3. The city of Springfield, acting as aforesaid, may take, or acquire by purchase or otherwise, and may hold, any lands, rights of way, easements and other property which said board may deem necessary or convenient for carrying out the purposes of this act or for exercising any of the powers conferred thereby; may construct and maintain dams, flumes, buildings, machinery, conduits, transmission lines and other works and structures; may erect, lay and maintain wires, and carry any conduit, transmission line, wire or other works upon, along, under and across any lands, water courses, railroads, street railways, electric railroads, streets or other ways, or any bridges, now existing or hereafter constructed, but in such a manner as not unnecessarily to obstruct or impede travel thereon; and may dig up any such road or way, and lay, maintain and repair conduits, transmission lines, wires and other works beneath the surface thereof, restoring any such road, or way, to a condition as good as the same was in when the digging was begun: *provided*, that the city shall not enter upon, or construct or lay any conduit, transmission line, wires or other works within the location of a railroad corporation, a highway other than a state highway, or a state highway, except at such times and in such manner as it may agree upon with such corporation in the case of a railroad location, with the mayor and aldermen of cities or the selectmen of towns in which the highway is situated, in the case of a highway other than a state highway, and with the Massachusetts highway commission in the case of a state highway; or, in case of failure so to agree with the railroad corporation, as may be approved by the public service commission, and in case of failure so to agree with the mayor and aldermen or selectmen, as may be approved by the gas and electric light commission.

Any city or town through which said city may construct or maintain conduits, transmission lines, wires or other works as aforesaid may direct any alteration in the location thereof in such manner and upon such terms and conditions as may be agreed upon between the board of water commissioners and the mayor and aldermen of cities or the selectmen of towns in which such works are situated, or, in case of failure so to agree, as may be approved by the board of gas and electric light commissioners.

SECTION 4. The said city and its board of water commissioners in carrying out the purposes of this act and in exercising the powers conferred hereby shall have all the rights and powers and shall be subject to all the obligations and duties conferred or imposed upon them by sections four, six and seven of chapter three hundred and seventeen of the acts of nineteen hundred and six.

SECTION 5. All buildings, machinery, poles, wires and conduits for carrying wires, hereafter constructed, installed, used or appropriated for the generation or transmission of electricity for sale or for the use of said city within its own limits, under the provisions of this act, may be valued by the assessors of the respective cities and towns in which they are situated for the purposes of taxation at the fair cash value thereof, and the

tax thereon at the valuations so determined may be collected by the cities or towns within which the same are situated; but nothing herein contained shall be construed as authorising the taxation of dams, reservoirs and other structures used and appropriated for any other purpose than the generation of electricity. The city of Springfield, acting as aforesaid, within six months after the receipt of a bill for such taxes, may appeal from the valuation to the county commissioners of the county of Hampden or to the superior court for the said county, and the provisions of sections seventy-seven and seventy-eight of Part I of chapter four hundred and ninety of the acts of nineteen hundred and nine, and of any amendments thereof, so far as the same are applicable, shall govern such appeal. The city shall not be required to bring in to the assessors the list of property or estate required by section forty-one of Part I of said chapter, and the amendments thereof.

SECTION 6. For the purpose of paying the necessary expenses and liabilities incurred or to be incurred under the provisions of chapter three hundred and seventeen of the acts of nineteen hundred and six, as amended by chapter six hundred and seven of the acts of nineteen hundred and twelve, and of this act, the city of Springfield may issue from time to time bonds or notes to an aggregate amount of five hundred thousand dollars payable in not more than thirty years from the dates thereof, to which shall apply the provisions of chapter seven hundred and nineteen of the acts of nineteen hundred and thirteen, and the amendments thereof, so far as the same may be applicable. *[Approved May 24, 1918.]*

APPENDIX II.

LEGISLATIVE ACT FOR WATER SUPPLY FOR BELCHERTOWN STATE SCHOOL, INCLUDING PROVISION FOR COMPENSATING CITY OF SPRINGFIELD FOR DIVERSION OF WATER FROM SPRINGFIELD SOURCES.

[GENERAL ACTS OF 1918—CHAPTER 224.]

AN ACT TO AUTHORIZE THE COMMISSION ON MENTAL DISEASES TO PROVIDE A WATER SUPPLY FOR THE PROPOSED BELCHERTOWN STATE SCHOOL.

Be it enacted, etc., as follows:

SECTION 1. The commission on mental diseases, for the purpose of supplying the proposed Belchertown state school with pure water for domestic and other purposes, may take or acquire by purchase or otherwise and hold, the waters of any pond or stream, or so much thereof as may be necessary for the purposes of this act, or of any ground sources of supply, by means of driven, artesian or other wells, within the limits of the town of Belchertown, and the water rights connected with any such water sources, and may also take or acquire by purchase or otherwise and hold, all lands, rights of way and easements necessary for collecting, storing, holding, purifying and preserving the purity of the water and for conveying the same to any part of the lands owned by the commonwealth: *provided, however*, that no source of water supply and no lands necessary for preserving the quality of the water shall be taken or used without first obtaining the advice and approval of the state department of health, and that the situation of all dams, reservoirs and wells to be used as sources of water supply under this act shall be subject to the approval of the said department; and *provided, further*, that if the source of supply selected shall be situated within the limits of any source of supply which has been acquired by the city of Springfield, acting under its statutory rights, the commonwealth shall pay to the city of Springfield for the water diverted such sum as shall be agreed upon by the commission on mental diseases and the board of water commissioners of the said city, and in case of failure to agree upon the sum to be paid, the same shall be determined by a board of arbitration consisting of three members, one of whom shall be chosen by the commission on mental diseases, another by the board of water commissioners of the city of Springfield, and a third by the two so chosen, and the decision of the said board shall be final and binding upon the commonwealth and the city.

SECTION 2. Said commission may construct on lands acquired under the provisions of this act proper dams, reservoirs, standpipes, tanks, buildings, fixtures, and other structures, and may make excavations, procure and operate machinery and provide such other means and appliances, and do such other things as may be necessary for the establishment and maintenance of complete and effective water works; and for that purpose may construct wells and reservoirs and establish pumping works, and may construct, lay and maintain aqueducts, conduits, pipes and other works

under or over any lands, water courses, railroads, railways, and public or other ways, and along such ways in the town of Belchertown in such manner as not unnecessarily to obstruct the same; and for the purpose of constructing, laying, maintaining, operating and repairing such conduits, pipes and other works, and for all other proper purposes of this act, said commission may dig up or raise and embank lands, highways or other ways, in such manner as to cause the least hindrance to public travel on such ways, and all things done upon any such way shall be subject to the direction of the selectmen of the town of Belchertown. Said commission shall not enter upon, construct or lay any conduits, pipes or other works within the location of any railroad corporation, except at such time and in such manner as it may agree upon with such corporation, or in case of failure so to agree, as may be approved by the public service commission.

SECTION 3. Said commission shall, within ninety days after the taking of any lands, rights of way, water rights, water sources or easements, under the provisions of this act, file and cause to be recorded in the registry of deeds for the county of Hampshire a description thereof sufficiently specific for identification, with a statement of the purposes for which the same were taken duly signed by the commission.

SECTION 4. The commonwealth shall pay all damages sustained by any person or corporation by the taking of any land, right of way, water, water source, water right or easement, or by any other thing done by said commission under the authority of this act. Any person or corporation sustaining damages as aforesaid and failing to agree with the commission as to the amount thereof may have the same assessed and determined in the manner provided by law in the case of land taken for laying out highways, on application at any time within the period of two years from the taking of such land or other property or the doing of other injury under the authority of this act; but no such application shall be made after the expiration of the said two years, and no assessment for damages shall be made for the taking of any water, water right, or any injury thereto, and the said period of two years shall not begin to run, until water is actually withdrawn or diverted by said commission under the authority of this act.

SECTION 5. Whoever wilfully or wantonly corrupts, pollutes or diverts any water obtained or supplied under this act, or wilfully or wantonly injures any reservoir, standpipe, aqueduct, pipe or other property owned or used by the commonwealth for the purposes of this act shall forfeit and pay to the commonwealth three times the amount of damages assessed therefor to be recovered in an action of tort; and upon conviction of any of the above acts shall be punished by a fine not exceeding one hundred dollars or by imprisonment in jail for a term not exceeding six months.

SECTION 6. For the purpose of carrying out the provisions of this act, the commission on mental diseases is authorized to expend a sum not exceeding fifty thousand dollars, to be paid out of the treasury of the commonwealth from the ordinary revenue.

SECTION 7. This act shall take effect upon its passage, but shall become void unless the commission on mental diseases shall select a source of water supply and begin the construction of the water works herein authorized within two years after the date of its passage. [*Approved May 24, 1918.*]

APPENDIX III.

SUMMARY OF STATISTICS

For the Year Ending November 30, 1918.

In form recommended by the New England Water Works Association.

MUNICIPAL WATER WORKS,

City of Springfield, Hampden County, Massachusetts.

GENERAL STATISTICS.

Population of Springfield by State census of 1915, . . .	102,971
Estimated population of Springfield for 1918, . . .	111,398*
Dates of construction:—	

Original works in city (*not now in system*), as follows:—

Small supply from springs (by private enterprise), . . .	1843
Van Horn reservoir supply (by Springfield Aqueduct Co.), . . .	1843
Enlargement of above supply (by Springfield Aqueduct Co.), . . .	1864
Sale of above to City, for \$238,296 (by Springfield Aqueduct Co.), . . .	1872
(Plus interest paid, total cost=\$250,010.58)	

Works at Ludlow, Mass., . . . 1873-1874-1875

Works at Belchertown, Mass. (auxiliary to Ludlow), . . . 1890-1891

Additional main from Ludlow reservoir, . . . 1893-1894

New supply from Westfield Little River, . . . 1907-1910

By whom owned, . . . City of Springfield

Source of supply used by Springfield District (filtered and metered):—

From Westfield Little River, storage capacity as follows:—

Borden brook reservoir (<i>impounding</i>), . . .	2,500,000,000 gallons
Intake reservoir (<i>diverting</i>), . . .	40,600,000 gallons
Sedimentation basin (<i>before filtering</i>), . . .	38,700,000 gallons
Provin mountain reservoir (<i>filtered</i>), . . .	17,000,000 gallons

Total, . . . 2,596,300,000 gallons

Source of supply used by adjoining town of Ludlow (filtered into standpipe during summer; unmetered):—

From impounding reservoirs in Ludlow and Belchertown (fed by natural streams, springs and surface water); storage capacity as follows:—

Total (*can be used by Springfield in*

emergency), . . . 1,434,218,000 gallons

(Aggregate storage capacity, 4,030,518,000 gallons.)

Mode of supply, . . . entirely by gravity

*See foot of page 219—Engineer's report.

FINANCIAL STATISTICS.

REVENUES (credited)—1918.

(In revised form recommended by Committee of N. E. W. A. in 1918.)

Balances brought forward:—

- a. From ordinary (maintenance) receipts,—(cash surplus transferred to sinking fund at end of previous year)..... \$68,084 97
- b. Accounts receivable, Nov. 30, 1917..... 300 00
- c. From extraordinary receipts: Lombard Reservoir fund..... 129,291 44
- d. Inventory of stock and stores on hand Nov. 30, 1917.....

Net total (forward from 1917)..... \$197,676 41

Earnings from Water Rates:—

A. Future Rates (within city):—

- a. Domestic..... \$121 78
- b. Builders' use..... 5,596 28
- c. Unclassified.....

\$5,717 06

B. Meter Rates (within city):—

- a. Domestic..... \$332,701 10
- b. Commercial..... 39,257 66
- c. Industrial..... 69,141 02
- d. Institutional (includes churches)..... 7,473 87
- e. Builders' use..... 360 17
- f. Unclassified..... 2 42

448,986 24

C. Public Uses (not charged for or collected, per city ordinance):—

- a. Hydrants..... \$46,875 00
- b. Fountains and ponds..... 1,638 45
- c. Street washing and sprinkling..... 1,800 00
- d. Public buildings..... 12,842 58
- e. Sewer and street department, building purposes..... 300 00
- f. Park use..... 1,881 15
- g. Public playgrounds..... 152 00
- h. Finishing sewers..... 6,090 00
- i. Incinerating plants..... 20 68
- j. Municipal market..... 80

\$71,000 10

Total from within city..... \$454,653 30

EXPENDITURES (charged)—1918.

Water Works Maintenance:—

- AA. Operating expenses (includes all maintenance except renewals of distribution mains, gates and hydrants, and special expense s/c public safety)..... \$145,361 84

BB. Special:—

- Renewal work, distribution system..... 10,800 08
- Special expense s/c public safety..... 19,502 13

CC. Total maintenance and operating expenses charged

- 1918 (not including interest)..... \$177,864 06

DD. Interest on bonds (amount paid)..... 77,060 00

(CC+DD=\$254,924.76)

EE. Payment on bonds (for new supply) (old supply bonds are payable from sinking fund)..... 89,000 00

FF. Sinking fund (for Ludlow supply bonds)..... 21,593 54

Water Works Construction:—

- GG. Extension of mains..... \$9,058 14
- HH. Extension of services (mostly paid for by consumers), (C) 18 03
- II. Extension of meters (mostly paid for by consumers), 6 00

Special:—

- Hydrants—extension..... 3,229 23
- Gates—extension..... 746 74
- Land—account Little River supply..... 8,495 70
- Buildings, fixtures and grounds..... 472 81
- Office equipment..... 210 90
- Shop equipment..... 1,602 68
- Utility equipment..... 3,582 50
- Property costs s/c public safety..... 3,028 64

\$30,415 28

Less:

- Material sold s/c plant, property and equipment Nov. 1, 1918..... 22 00

KK. Net aggregate construction charged, 1918..... 30,393 28

D. Other Miscellaneous Earnings:—

a. Water used outside city:—		
Fixture rates.....	\$150 00	
Meter rates.....	18,824 16	
	<u>18,474 16</u>	

Total water rates collectible.....	\$478,127 46	
------------------------------------	--------------	--

b. Water used by water works (included in its operating expenses).....	84 85	
--	-------	--

Total operating revenues.....	478,212 31	
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E. General appropriations.....		
--------------------------------	--	--

F. From municipal departments.....		
------------------------------------	--	--

G. From tax levy.....		
-----------------------	--	--

H. From bonds.....		
--------------------	--	--

I. From other sources:—		
-------------------------	--	--

a. Non-operating income (sale of products, rentals, etc.).....	4,596 52	
--	----------	--

b. Delayed gains a/c prior periods.....	5 44	
---	------	--

J Total credited (including balance forward).....	\$675,490 68	
---	--------------	--

LL. Unclassified expenses:—		
-----------------------------	--	--

Delayed losses in prior periods charged off in 1918.....		433 36
--	--	--------

Net total charges, 1918.....		<u>\$396,344 23</u>
------------------------------	--	---------------------

MM. BALANCE, Nov. 30, 1918:—		
------------------------------	--	--

Inventory of stock and stores on hand.....	\$132,011 95	
--	--------------	--

Cash in hands of City Treasurer:—		
-----------------------------------	--	--

Lombard Reservoir fund.....	691 00	
-----------------------------	--------	--

Reserve fund for deferred work.....	80,000 00	
-------------------------------------	-----------	--

Accounts Receivable:—		
-----------------------	--	--

Committed to City Collector,—un-		
----------------------------------	--	--

collected (includes Dec. 1st bills),	\$65,907 14	
--------------------------------------	-------------	--

Not yet committed to City Collector,	536 36	
--------------------------------------	--------	--

	<u>66,443 50</u>	
--	------------------	--

		279,146 45
--	--	------------

J Total (in balance with revenue).....		<u>\$675,490 68</u>
--	--	---------------------

Disposition of balance. Carried forward.

O. Net cost of works to date.....	\$5,681,039 40
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P. Bonded debt at date, {	\$275,000 00
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Ludlow supply.....	1,764,000 00
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Q. Value of sinking fund at date (Ludlow supply bonds).....	\$2,029,000 00
---	----------------

R. Average rate of interest, {	\$198,173 53
--------------------------------	--------------

Ludlow supply bonds.....	3.77%
--------------------------	-------

Little River supply bonds.....	3.64%
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STATISTICS OF CONSUMPTION OF WATER.

(In revised form recommended by Committee of N. E. W. W. A. in 1913.)

1. Year for which report is made,.....	1918
2. Population—(Springfield district):—	
a. Total—(Springfield, 111,398, and Wilbraham, 500) (estimated),.....	111,898
b. On line of pipe (estimated),..	110,510
c. Supplied (estimated),.....	110,098
3. Total number of active taps,.....	15,212
4. Average number of persons per active tap (2a+3),	7.35+
5. Total number of metered taps,.....	14,912
6. Per cent of active taps metered (5+3),.....	98.02+
7. Total water consumption is determined by Venturi meter on supply main at Provin Mountain reservoir.	
8. Water supplied from Little river system during mean year covered by consumers' meters:—	

(Recorded by consumers' meters, as follows):—

(Recorded by consumers' meters, as follows):—

<i>In Springfield:—</i>	<i>Gallons.</i>	<i>Per Cent of Total (8-n).</i>
a. For domestic uses,.....	1,686,091,030	34.75
b. For commercial uses,.....	428,359,952	8.83
c. For industrial uses,.....	949,104,314	19.56
d. For institutional uses,.....	82,370,986	1.70
e. For builders' uses,.....	1,884,300	.03
f. For charitable uses (free),.....	12,107,200	.25
g. For public uses (uncollectible) (23.9% of such municipal services metered),.....	199,563,800	4.11
h. Total in Springfield,.....	3,359,481,582	69.23
i. Total in Wilbraham,.....	6,384,600	.13
j. Total in Springfield district,.....	3,365,866,182	69.36
k. Total outside Springfield district,.....	89,065,648	1.83
l. Total recorded by consumers' meters,.....	3,454,931,830	71.19
m. For unmetered sales, unmetered private fire supplies, unmetered public uses, and lost and unaccounted-for (<i>balance</i>),.....	1,397,828,170*	28.81*
n. Total water supplied from Little river system during <i>mean year</i> covered by consumers' meters,.....	4,852,760,000	100.00

*The increased consumption "unaccounted-for," from 25.95% in 1917 to 28.81% in 1918, is undoubtedly due to the fact that, during the severe cold weather of last January, February and March, about 1,000 meters were frozen and left disconnected for various lengths of time while water was allowed to run to prevent freezing.

9. Water supplied to Springfield district, 1918:—
- | | |
|--|-----------------------|
| a. Total for calendar year,..... | 4,733,420,000 gallons |
| b. Percentage metered ($8j+9a$),..... | 71.11—per cent |
| c. Total average per day ($9a+365$ days),.... | 12,970,000 gallons |
| d. Average per day per active tap ($9c+3$),... | 852 gallons |
| e. Average per day per consumer ($9c+2c$),... | 118 gallons* |
| f. Average per day per capita ($9c+2a$),..... | 116 gallons* |

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

- | | | |
|---|--------------|----------|
| 1. Kind of pipe used:—wrought-iron cement-lined (formerly used by private aqueduct company and by city);—wrought-iron—for small and temporary mains,—and cast-iron and steel (used by city at present). | | |
| 2. Sizes;—from one inch to fifty-four inches. | | |
| 3. Extended during year (added to pipe table, including all changes, etc.), | 6,117 feet | |
| 4. Discontinued during year (deducted from pipe tables, including all changes, etc.), | 3,184 feet | |
| 5. Total now in use (city, Indian Orchard, Wilbraham, and Ludlow), | 227.59+miles | |
| 6. Cost of repairs per mile (including big breaks), | \$6.63+ | |
| 7. Number of leaks per mile (total leaks=45), | 0.20— | |
| 8. Length of pipes less than 4 inches in diameter, | 8.07+miles | |
| 9. Number of hydrants added during year (public =4, and private=0) (net), | 4 | |
| 10. Number of hydrants (public=1,858, and private =130), now in use (city, Indian Orchard, and Wilbraham), | 1,988 | |
| 11. Number of hydrants in Ludlow (public=19, private=108), now in use, | 127 | |
| 12. Number of stop gates added during year (public and private) (net), | 94 | |
| 13. Number of stop gates now in use, | 5,957 | |
| 14. Number of gates smaller than 4-inch, | 805 | |
| 15. Number of blow-offs (air valves), | 106 | |
| 16. Range of pressure on mains:— | | |
| | Maximum | Average |
| a. Main street level, | 147 lbs. | 140 lbs. |
| b. Hill section level, | 87 lbs. | 80 lbs. |

*See foot of page 219—Engineer's report.

SERVICES.

17.	Kind of pipe used:—lead (formerly used by private aqueduct company);—cement-lined wrought-iron, and tarred wrought-iron (formerly used by city);—galvanized wrought-iron, lead-lined wrought-iron, and cast-iron (used by city at present).	
18.	Sizes from $\frac{1}{2}$ to 10 inches.	
19.	Extended during year (in feet).	} NOTE.—Services paid for entirely by the consumers, and no special statistics kept of them.
20.	Discontinued during year (in feet).	
21.	Total now in use (in miles).	
22.	Number of services added during year (net) (to December 1st),	30
23.	Total services December 1, 1918,	15,641
	a. Active services,	15,212
	b. Metered services,	14,912
24.	Average length of service.	} (See note under 19, 20, 21.)
25.	Average cost of service.	
26.	Number of meters added (net to December 1st),	78
27.	Total meters December 1, 1918,	14,987
28.	Percentage of active services metered, December 1, 1918,	98.02+per cent
29.	Percentage of net earnings from metered water (to December 1st),	98.76+per cent
30.	Number of motors and elevators added and discontinued (net),	0
	a. Motors added, 0; discontinued, 1;	= -1
	b. Elevators added, 10; discontinued, 5;	= +5
31.	Number of motors and elevators now in use,	413
	a. Motors,	66
	b. Elevators,	345

APPENDIX IV.

COMPARATIVE STATEMENT OF WATER RECEIPTS
SINCE 1884.*(On annual basis of twelve months.)*

Year.	Water Rates Charged—Gross Earnings. (During the year, only.)		Water Rates Collected. (Including balances forward.)	
	Totals.	Gain or Loss.	Totals.	Gain or Loss.
1885	\$93,421 60	+\$5,976 56	\$90,848 05	+\$5,262 34
1886	100,537 77	+ 7,116 17	97,298 78	+ 6,450 73
1887	108,140 94	+ 7,603 17	105,451 52	+ 8,152 74
1888	115,146 35	+ 7,005 41	112,581 21	+ 7,129 69
1889	126,220 72	+11,074 37	122,541 52	+ 9,960 31
1890*	133,553 28	+ 7,332 56	129,913 27	+ 7,371 75
1891	140,604 85	+ 7,051 57	136,985 11	+ 7,071 84
1892	150,515 67	+ 9,910 82	146,349 09	+ 9,363 98
1893	164,894 65	+14,378 98	160,936 78	+14,587 69
1894	167,376 11	+ 2,481 46	162,769 71	+ 1,832 93
1895	182,357 49	+14,981 38	178,421 15	+15,651 44
1896	194,069 28	+11,711 79	189,373 75	+10,952 60
1897	196,818 72	+ 2,749 44	192,132 58	+ 2,758 83
1898	209,183 12	+12,364 40	201,710 66	+ 9,578 08
1899	220,673 14	+11,490 02	213,061 24	+11,350 58
1900	225,798 96	+ 5,125 82	218,741 57	+ 5,680 33
1901*	233,227 98	+ 7,429 02	218,815 05	+ 73 48
1902*	231,594 98	— 1,633 00	223,903 08	+ 5,088 03
1903	245,358 59	+13,763 61	238,673 13	+14,970 05
1904	249,779 77	+ 4,421 18	244,767 77	+ 6,094 64
1905	259,133 06	+ 9,353 29	252,747 50	+ 7,979 73
1906*	263,746 17	+ 4,613 11	260,186 99	+ 7,439 49
1907*	267,263 78	+ 3,517 61	255,109 17	— 5,077 82
1908*	293,896 28	+26,632 50	291,108 15	+35,998 98
1909	302,230 17	+ 8,333 89	298,449 48	+ 7,341 33
1910	327,333 58	+25,103 41	322,845 84	+24,396 36
1911	344,591 64	+17,258 06	341,057 40	+18,211 56
1912*	341,515 25	— 3,076 39	333,607 69	— 7,449 71
1913	375,558 61	+34,043 36	359,274 81	+25,667 12
1914	397,823 84	+22,265 23	395,094 09	+35,819 28
1915*	393,394 68	— 4,429 16	395,046 41	— 47 68
1916	413,958 91	+20,564 23	411,423 13	+16,376 72
1917	446,889 60	+32,930 69	443,262 17	+31,839 04
1918	474,439 47	+27,549 87	470,113 46	+26,851 29

*See explanatory notes in annual reports for years indicated.

APPENDIX V.

SERVICE TAPS AND SUPPLY AND DISTRIBUTION
MAINS SINCE 1884.

Year.	Service Taps.		Distribution Mains.		Supply and Distribution Mains in Use. (Miles.)
	Total Number.	Net Increase.	Extensions. (Feet.)	Cost of Extensions.	
1885	4,237	224	10,014	\$11,235 33	75 01
1886	4,519	282	18,993	14,158 71	78 65
1887	4,819	300	17,244	14,600 36	81 55
1888	5,147	328	13,877	14,038 56	84 97
1889	5,497	350	29,059	26,418 94	91 11
1890	5,770	273	9,962	7,833 06	92 28
1891	6,181	411	14,927	10,396 00	94 86
1892	6,633	452	24,853	16,253 21	98 63
1893	7,000	367	25,079	17,090 71	102 97
1894	7,482	482	20,280	13,491 16	117 21*
1895	7,900	418	32,368	25,302 47	123 65
1896	8,298	398	23,521	21,018 62	127 80
1897	8,721	423	39,108	22,349 41	134 71
1898	9,070	349	28,810	16,042 36	140 08
1899	9,456	386	20,851	10,069 22	143 21
1900	9,764	308	9,880	6,362 20	144 69
1901	10,034	270	8,668	5,174 62	146 22
1902	10,221	187	5,353	3,060 71	147 34
1903	10,471	250	16,425	13,147 42	150 44
1904	10,641	170	9,767	6,163 18	152 20
1905	10,946	305	20,309	17,290 22	154 67
1906	11,175	229	17,027	24,054 14	156 84
1907	11,385	210	20,099	114,117 98**	160 42
1908	11,706	321	19,047	72,635 91**	161 85
1909	12,134	428	30,177	111,153 39**	174 87*
1910	12,545	411	45,520	152,570 23**	182 74
1911	12,985	440	31,816	43,044 79**	188 87
1912	13,407	422	31,159	39,747 99	195 11
1913	13,692†	473†	54,043	74,272 30	205 31
1914	14,126	434	39,634	64,429 03	212 69
1915	14,642	516	34,244	43,009 57	218 51
1916	15,248	606	22,425	27,858 26	223 02
1917	15,611	363	17,643	27,948 52	226 92
1918	15,641	30	2,786	9,058 14	227 59

* The total of 117.21 miles of main and distribution pipe at end of 1894 includes 10.86 miles of "Ludlow Supply Main No. 2," laid in 1893 and 1894; and the total of 174.87 miles at end of 1909 includes 13.29 miles of "Little River Supply" pipe, laid in 1908-1909-1910.

** Amounts include extension-cost of "Circuit" mains, as follows:—1907—\$38,911.77; 1908—\$26,776.96; 1909—\$31,900.00; 1910—\$121,039.43; 1911—\$4,688.65; leaving following balances for ordinary and improvement extensions:—1907—\$20,206.31; 1908—\$45,868.26; 1909—\$19,263.39; 1910—\$31,630.80; 1911—\$38,861.14.

† Revised by actual count for total, and elimination of errors of earlier years due to evident oversight of taps abandoned.

APPENDIX VI.

CLASSIFICATION OF CONSUMERS, DECEMBER 1, 1918.

(Not including Ludlow Manufacturing Associates' private system in Ludlow Village.)

CLASSIFICATION.	Total, End of Year 1918.	Total, Beginning of Year 1918.	Increase or Decrease 1918.
Domestic:—			
Apartment Blocks.....	361	854	+7
Dwellings (single).....	6,268	6,156	+108
Dwellings (double).....	325	329	—4
Dwellings (tenement).....	6,750	6,699	+51
Tenements (included in above), ...	31,762	31,325	+437
Commercial:—			
Banks.....	12	12	....
Business Blocks.....	438	442	—4
Garages (public).....	44	37	+7
Gasoline Stations.....	6	2	+4
Greenhouses.....	10	10	....
Hotels.....	18	19	—1
Restaurants.....	100	97	+3
Saloons.....	63	64	—1
Stables (public).....	15	17	—2
Stores.....	1,652	1,613	+39
Theaters.....	7	6	+2
Industrial:—			
Breweries.....	3	3	....
Foundries.....	18	18	....
Gas Works.....	1	1	....
Laundries (public).....	54	54	....
Manufactories.....	133	129	+4
Railroads.....	4	4	....
Institutional:—			
Cemeteries.....	6	6	....
Charitable Institutions.....	12	12	....
Churches.....	60	57	+3
Colleges.....	2	2	....
Court House.....	1	1	....
Hospitals.....	6	6	....
Jail.....	1	1	....
Libraries.....	4	4	....
Post Offices.....	4	4	....
Schools (private).....	11	11	....
State Militia Armory.....	1	1	....
Truant School.....	1	1	....
United States Armory.....	1	1	....
United States Barracks.....	2	1	+1
Municipal (Public Use):—			
Drinking Fountains and Tanks.....	26	26	....
Fire Department Stations.....	13	13	....
Fire Hydrants.....	1,877	1,873	+4
Fountains.....	19	19	....
Parks.....	23	23	....
Playgrounds.....	9	9	....
Police Department Stations.....	2	2	....
Reduction Plants.....	2	2	....
Sanitary.....	1	1	....
Schools.....	43	41	+2
Street Sprinkling Hydrants.....	184	184	....
Fixtures:—			
Bath Tubs.....	27,877	27,308	+569
Elevators.....	345	340	+5
Motors.....	66	67	—1
Urinals.....	1,025	928	+97
Water Closets.....	42,857	41,793	+1,064

APPENDIX VII.
CLASSIFICATION OF SERVICES, DECEMBER 1, 1918.

CLASSIFICATION.	SIZES OF SERVICES.												Total, End of Year 1918.	Total, Beginning of Year 1918.	Increase or Decrease, 1918.
	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	6"	8"	10"			
REVENUE SERVICES.															
<i>Within City.</i>															
Domestic Consumers,.....	7	91	9,224	3,194	332	87	4	2	9	2	..	..	12,929	534	+23
Domestic and Commercial Con- sumers,.....	1	4	171	240	71	41	6	7	10	3	..	..	554	627	+20
Commercial Consumers,.....	..	5	158	155	64	76	8	15	116	16	..	..	613	14	-14
Churches,.....	..	1	19	19	6	15	2	..	1	..	..	..	63	62	+1
Total-called "Commercial,"	8	101	9,572	3,608	473	219	20	24	136	21	..	..	14,182	1,152	+30
Industrial Consumers,.....	..	2	48	58	26	61	16	18	100	86	11	3	429	4	+4
Institutional Consumers,.....	..	..	11	25	7	14	4	10	4	1	..	..	90	77	+3
Public Uses,.....	..	1	4	2	1	..	..	..	..	1	..	..	9	9	..
Total within City,.....	8	104	9,635	3,693	507	294	40	46	246	112	12	3	14,700	1,463	+37
<i>Outside City.</i>															
Commercial Consumers, Little	..	..	6	..	..	..	..	..	..	..	..	..	6	6	..
River Transmission Main,.....	..	5	95	29	1	2	..	..	5	..	..	..	137	137	..
Com'l Consumers, Ludlow,.....	..	..	38	26	2	5	..	..	..	..	..	..	69	69	..
Com'l Consumers, Wilbraham,.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Industrial Consumers, Ludlow	..	..	..	..	..	..	..	..	..	..	1	1	2	2	..
Mfg. Co.'s System,.....	..	..	..	..	..	..	..	..	..	..	1	1	1	1	..
Wholesale Services, Agawam,.....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..
Wholesale Services, Chicopee,...	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..
Wholesale Services, East Long- meadow,.....	..	..	..	..	..	..	..	..	..	1	..	..	1	1	..
Wholesale Services, Longmeadow	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..
Wholesale Services, West Spring- field,.....	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Total outside City,.....	..	5	137	55	3	7	..	..	5	1	5	1	219	219	..
Total Revenue Services,.....	8	109	9,772	3,748	510	301	40	46	251	113	17	4	14,919	14,882	+37

CLASSIFICATION OF SERVICES, DECEMBER 1, 1918—(CONCLUDED).

CLASSIFICATION.	SIZES OF SERVICES.												Total, End of Year 1918.	Total, Beginning of Year 1918.	Increase or Decrease, 1918.	
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"				
NON-REVENUE SERVICES.																
Private Use.																
Domestic Consumers,.....	..	..	2	..	..	..	..	..	..	..	..	..	2	4	..	-2
Domestic and Commercial Con- sumers,.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Commercial Consumers,.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Churches,.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total—called "Commercial,"	..	..	2	..	..	..	..	..	..	..	..	..	2	4	4	-2
Institutional Consumers,.....	..	..	1	3	1	..	..	..	..	..	..	..	5	4	4	+1
Total Private Use in City,...	..	..	3	3	1	..	..	..	..	..	..	..	7	8	7	-1
Commercial Consumers, Lud- low,.....	..	..	1	..	..	..	..	..	..	11	..	..	12	12	12	..
Total Private Use,.....	..	..	4	3	1	..	..	..	..	11	..	..	19	20	19	-1
Public (Municipal) Use.																
Buildings and Departments,...	..	9	35	18	24	18	3	13	31	8	1	..	160	154	154	+6
Drinking Fountains and Tanks,	..	3	11	5	..	2	..	..	..	..	..	..	21	21	21	..
Street Watering Hydrants,—	..	..	..	..	..	..	113	..	..	..	..	..	113	113	113	..
Standpipes—cart sprinklers,	..	..	..	..	..	..	41	..	..	..	..	..	41	41	41	..
Special hydrants,—st. washing,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total Public Use,*.....	..	12	46	23	24	20	157	13	31	8	1	..	335	329	329	+6
Total Non-Revenue Services,	..	12	50	26	25	20	157	13	42	8	1	..	354	349	349	+5
Total Classified Services,...	8	121	9,822	3,774	535	321	197	59	293	121	18	4	15,273	15,231	15,231	+42
Total Unclassified Services,...	1	8	253	54	13	16	..	3	15	4	1	..	368	380	380	-12
Total Services,*.....	9	129	10,075	3,828	548	337	197	62	308	125	19	4	15,641	15,611	15,611	+30

*Fire Hydrants, Flush Gates for sewer system, and Track Hydrants for street watering, not included under "Services" in records.

APPENDIX VIII.
CLASSIFICATION OF METERS, DECEMBER 1, 1918.

CLASSIFICATION.	SIZES OF METERS.										Total, Beginning of Year 1918.	Increase or Decrease, 1918.
	$\frac{1}{8}$ " or $\frac{3}{16}$ "	$\frac{1}{4}$ "	1"	1½"	1½"	2"	3"	4"	6"	8"		
REVENUE METERS.												
Within City.												
Domestic Consumers.....	8,946	3,280	586	42	65	15	3	1	1	..	12,939	+53
Domestic and Commercial Con- sumers.....	191	218	132	9	27	23	10	4	1	..	615	+23
Commercial Consumers.....	129	184	124	7	38	77	81	36	9	..	635	-13
Churches.....	23	17	11	1	7	1	..	1	..	..	61	+1
Total-called "Commercial,"	9,289	3,699	853	59	137	116	44	42	11	..	14,250	+64
Industrial Consumers.....	30	40	56	3	36	73	40	58	38	9	383	+8
Institutional Consumers.....	13	17	15	2	6	10	7	5	2	..	77	+2
Public Uses.....	5	2	..	..	..	1	..	1	..	..	9	..
Total within City.....	9,337	3,758	924	64	179	200	91	106	51	9	14,719	+74
Outside City.												
Commercial Consumers, Little River Transmission Main.....	6	..	..	..	..	..	..	..	..	..	6	..
Commercial Consumers, Ludlow	108	15	4	..	..	2	..	..	..	..	129	..
Commercial Consumers, Wil- braham.....	29	5	..	2	5	..	..	..	..	..	41	..
Industrial Consumers, Ludlow	..	..	..	..	..	..	..	..	..	1	1	..
Mfg. Co.'s System.....	..	..	..	..	..	..	..	..	..	1	1	..
Wholesale Service, Agawam.....	..	..	..	..	..	..	..	..	1	1	1	..
Wholesale Service, Chicopee.....	..	..	..	..	..	..	..	..	1	1	1	..
Wholesale Service, East Long- meadow.....	..	..	..	..	..	..	..	..	1	1	1	..
Wholesale Service, Longmeadow	..	..	..	..	..	..	..	..	..	..	..	..
Wholesale Service, West Spring- field.....	..	..	..	..	..	..	..	..	..	1	1	..
Total outside City.....	143	20	4	2	5	2	..	..	3	2	181	..
Total Revenue Meters.....	9,480	3,778	928	66	184	202	91	106	54	11	14,900	+74

CLASSIFICATION OF METERS, DECEMBER 1, 1918—(CONCLUDED).

CLASSIFICATION.	SIZES OF METERS.										Total, End of Year 1918.	Total, Beginning of Year 1918.	Increase or Decrease, 1918.
	1/2" or 3/4"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"			
NON-REVENUE METERS.													
<i>Private Use.</i>													
Domestic Consumers,	2	..	..	..	..	..	..	..	..	..	2	4	-2
Domestic and Commercial Con- sumers,	..	..	..	..	..	..	..	..	..	..	..	..	..
Commercial Consumers,	..	..	..	..	..	..	..	..	..	..	..	..	..
Churches,	..	..	..	..	..	..	..	..	..	..	..	..	..
Total—called "Commercial,"	2	..	..	..	..	..	..	..	..	..	2	4	-2
Industrial Consumers,	..	1	3	..	1	..	..	..	..	..	5	5	..
Institutional Consumers,	..	..	..	..	..	..	..	..	..	..	..	..	..
Total Private Use,	2	1	3	..	1	..	..	..	..	..	7	9	-2
Public (Municipal) Use.													
Buildings and Departments,	10	4	7	2	3	14	23	10	3	1	77	71	+6
Drinking Fountains and Tanks,	1	1	1	..	..	..	..	..	..	..	3	3	..
Street Watering Hydrants,	..	..	..	..	..	..	..	..	..	..	..	..	..
Total Public Use,	11	5	8	2	3	14	23	10	3	1	80	74	+6
Total Non-Revenue Meters,	13	6	11	2	4	14	23	10	3	1	87	83	+4
Total Revenue and Non- Revenue Meters,													
	9,493	3,784	939	68	188	216	114	116	57	12	14,987	14,909	+78
Owned by Consumers,	9,498	3,778	933	67	186	200	96	108	54	11	14,921	14,843	+78
Owned by Water Department,	5	6	6	1	2	16	18	8	3	1	66	66	..

APPENDIX IX.
SUMMARY OF MAIN PIPE LAID AND TAKEN OUT IN 1918.
(Including Changes and Corrections.)

Divisions.	1"	1½"	2"	4"	6"	8"	10"	12"	16"	Totals
PIPE LAID										
<i>Owned by Private Parties</i>										
Wrought-iron, ...	447	613	..	..	..	166	..	..	..	1,060
Cast-iron, ...	..	..	..	..	..	..	..	..	..	166
<i>Owned by City</i>										
Wrought-iron, ...	41	..	..	..	544	1,095	2,544	..	1,244	41
Cast-iron, ...	..	..	..	..	..	..	..	..	..	5,427
Total Pipe Added, ...	488	613	..	..	544	1,261	2,544	..	1,244	6,694
PIPE TAKEN OUT OR ABANDONED										
Wrought-iron, ...	..	..	180	205	1,018	184	1,574	..	..	180
Cast-iron, ...	..	..	..	..	..	..	..	..	..	2,981
Total Pipe Deducted, ...	..	..	180	205	1,018	184	1,574	..	..	3,161
Net Pipe Added, 1918, ...	+488	+613	-180	-205	-474	+1,077	+970	..	+1,244	+3,533

APPENDIX X.

CHANGES IN TOTALS OF MAIN PIPE DURING 1918.

SUPPLY MAINS—(FEET).

Size in inches.	In Use First of Year.	Laid During Year.	Abandoned and Taken Up During Year.	Net Change for Year.	In Use Close of Year.
16	61	....	....	....	61
20	561	....	....	....	561
24	24,942	....	....	....	24,942
30	17,216	....	....	....	17,216
36	14,002	....	....	....	14,002
42	61,976	....	....	....	61,976
54	1,851	....	....	....	1,851
Total	120,609	....	....	....	120,609

DISTRIBUTION MAINS—(FEET).

Size in inches.	In Use First of Year.	Laid During Year.	Abandoned and Taken Up During Year.	Net Change for Year.	In Use Close of Year.
1	4,548	488	....	+488	5,036
1½	10,146	613	....	+613	10,759
1½	6,773	....	....	....	6,773
2	19,787	....	180	—180	19,607
3	437	....	....	....	437
4	64,613	....	205	—205	64,408
6	450,228**	544	1,018	—474	449,754
8	251,462**	1,261	184	+1,077	252,539
10	44,511	2,544	1,574	+970	45,481
12	72,059	....	....	....	72,059
16	51,859	1,244	....	+1,244	53,103
20	7,903	....	....	....	7,903
24	37,962	....	....	....	37,962
30	35,456	....	....	....	35,456
36	17,723	....	....	....	17,723
42	2,070	....	....	....	2,070
Total	1,077,537*	6,694	3,161	+3,533	1,081,070*

* Includes parallel lines for services only, as follows:—

4"=18,816 feet.

6"=10,741 feet.

**23 feet transferred from 8" to 6" totals "In Use First of Year"; change in tables wholly, not in ground.

APPENDIX XI.

**SUMMARY OF
SUPPLY AND DISTRIBUTION MAIN PIPE
IN USE DECEMBER 1, 1918.**

SIZES.	Wrought-Iron.	Cement-Lined.	Cast-Iron.	Steel. L=Lock-bar. R=Riveted.	TOTALS.
1-inch.....	5,036	....	....	....	5,036
1¼-inch...	10,759	....	....	....	10,759
1½-inch...	6,773	....	....	....	6,773
2-inch.....	19,607	....	....	....	19,607
3-inch.....	437	....	....	....	437
4-inch.....	....	....	45,592	....	45,592
4-inch*....	....	....	18,816*	....	18,816*
6-inch.....	....	....	439,013	....	439,013
6-inch*....	....	....	10,741*	....	10,741*
8-inch.....	....	....	252,539	....	252,539
10-inch....	....	....	45,481	....	45,481
12-inch....	....	....	72,059	....	72,059
16-inch....	....	....	53,164	....	53,164
20-inch....	....	....	8,464	....	8,464
24-inch....	....	29,365	33,475	R 64	62,904
30-inch....	....	....	50,509	L 2,163	52,672
36-inch....	....	....	31,407	R 318	31,725
42-inch....	....	....	2,254	L 61,792	64,046
54-inch....	....	....	....	L 1,851	1,851
Feet.....	42,612	29,365	1,063,514	66,188	1,201,679
Miles....	8.07+	5.56+	201.42+	12.54—	227.59+

* For services only, not for fire protection.

APPENDIX XII.

SUMMARY OF GATES AND FIRE HYDRANTS SET AND TAKEN OUT IN 1918.

(Including Changes and Corrections.)

Divisions.	1"	1½"	1½"	2"	3"	4"	6"	8"	10"	12"	16"	Totals.
Gates Set, 1918, (Including Those Added),.....	2	1	..	11	4	18	78	16	24	3	2	159
Gates Taken Out, 1918, (Including Those Abandoned),..	1	..	1	3	1	15	27	5	10	2	..	65
Net Gates Added, 1918,.....	+1	+1	-1	+8	+3	+3	+51	+11	+14	+1	+2	+94
Total Gates, Dec. 1, 1917,.....	..	..	..	..	..	..	..	..	..	..	..	5,863
Total Gates, Dec. 1, 1918,.....	..	..	..	..	..	..	..	..	..	..	..	5,957
Public Hydrants Set, 1918, ...	..	..	..	..	..	..	67	..	..	..	..	67
Public Hydrants Taken Out, 1918, ...	..	..	..	..	..	35	28	..	..	..	..	63
Net Public Hydrants Set, 1918, ...	..	..	..	..	..	-35	+39	..	..	..	..	+4
Private Hydrants Set, 1918, ...	..	..	..	..	..	..	..	..	..	..	..	..
Total Hydrants, Dec. 1, 1917, ...	..	..	..	..	..	..	..	..	..	..	..	1,984
Total Hydrants, Dec. 1, 1918, ...	..	..	..	..	..	..	..	..	..	..	..	1,988
(Not including Ludlow).	..	..	..	..	..	..	..	..	..	..	..	..

APPENDIX XIII.

CLASSIFICATION OF FIRE HYDRANTS

CONNECTED TO WATER WORKS SYSTEM, DECEMBER 1, 1918.

Divisions and Sizes	Springfield (City)	Indian Orchard	Wilbraham	Total (not including Ludlow)	Ludlow	Totals
Public:						
8 inch.....	77	..	..	77	..	77
6 inch.....	1,357	48	4	1,409	..	1,409
5 inch.....	19	51	1	71	..	71
4 inch.....	282	19	..	301	19	320
Total public..	1,735	118	5	1,858	19	1,877
Private:						
8 inch.....	..	..	..	..	..	..
6 inch.....	27*	23	..	50*	92	142*
5 inch.....	..	4	..	4	..	4
4 inch.....	70	6	..	76	16	92
Total private..	97*	33	..	130*	108	238*
Total public and private hydrants ..	1,832*	151	5	1,988*	127	2,115*

* Includes one hydrant on Little River supply main, Westfield.

APPENDIX XIV.

CLASSIFICATION OF STREET WATERING HYDRANTS,
WATERING TANKS AND DRINKING FOUNTAINS

CONNECTED TO WATER WORKS SYSTEM, DECEMBER 1, 1918.

Divisions	Springfield (City)	Indian Orchard	Total
Crane Hydrants For Cart Sprinklers			
Owned by Water Works,.....	59	8	67
Owned by Street Department,.....	43	3	46
Total Crane Hydrants (stand- pipes),.....	102	11	113
Track Hydrants For Car Sprinklers			
Owned by Street Department, ...	30	....	30
Special Hydrants For Street-Washing			
Owned by Street Department,.....	41	....	41
Total Street Watering Hydrants, ..	173	11	184
Watering Tanks (for animals),.....	10	1	11
Drinking Fountains (for persons), ..	13	2	15
Total Watering Tanks and Drinking Fountains,.....	23	3	26

APPENDIX XV.

SUMMARY OF TOTAL SUPPLY, 1918.
SPRINGFIELD, MASS.(For *Mean Year* Covered by Consumers' Meters.)LITTLE RIVER SUPPLY.

	Gallons.
Total Supply delivered from Provin Mountain Reservoir (as per Venturi meter), ...	4,852,760,000
Consumption recorded by Consumers' Meters, as follows:—	
In Springfield:—	Gallons. Gallons.
Private Consumers, ...	3,147,810,582
Private Consumers (free (charities)), ...	12,107,200
Public Uses (uncollectible (23.9% of such municipal services metered)), ...	199,563,800
Total in Springfield, ...	3,359,481,582
In Wilbraham:—	
Private Consumers, ...	6,384,600
Total within Springfield District, ...	3,365,866,182
For Agawam:—	
Wholesale Service, ...	46,537,100
For East Longmeadow:—	
Wholesale Service, ...	10,052,675
For Chicopee:—	
Emergency Service, ...	25,679,873
For West Springfield:—	
Emergency Service, ...	6,796,000
Total outside Springfield District, ...	89,065,648
Total Consumption recorded by Consumers' Meters, Little River Supply, ...	3,454,931,830
Unmetered Sales, Unmetered Private Fire Supplies, Unmetered Public Uses, and Lost and Unaccounted-for (28.81%),*	1,397,828,170

LUDLOW SUPPLY.

Consumption recorded by Consumers' Meters, as follows:—	
For Ludlow Manufacturing Associates:—	Gallons.
Wholesale Service for Village System, ...	76,936,000
For other Consumers in Ludlow:—	
Private Consumers and Town Uses (except fire hydrants, etc.), ...	8,797,800
Total Consumption recorded by Consumers' Meters, Ludlow Supply, ...	85,733,800

*See foot-note on page 230.

APPENDIX XVI.

LITTLE RIVER WATER SUPPLY,
SPRINGFIELD, MASS.

TOTAL DRAUGHT BY METROPOLITAN DISTRICT, COMPRISING SPRINGFIELD,
CHICOPEE,* WILBRAHAM, EAST LONGMEADOW, LONGMEADOW,*
AGAWAM, AND WEST SPRINGFIELD.*

METERED AT PROVIN MOUNTAIN. IN MILLION GALLONS.

1918	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	13.35	16.00	13.87	14.40	13.80	13.09	14.20	14.45	11.70	12.80	12.05	10.83
2	14.78	14.34	12.81	14.17	14.15	12.65	13.55	14.50	12.20	12.95	11.35	12.85
3	†14.45	13.93	12.43	14.03	13.95	15.78	13.65	12.78	13.90	12.90	11.30	12.80
4	†14.48	16.09	14.55	13.66	11.90	14.80	12.90	11.55	14.55	13.05	12.35	12.70
5	13.65	17.98	13.84	13.90	11.45	15.45	11.95	14.50	14.50	11.23	12.30	12.60
6	12.57	17.34	14.38	11.81	14.70	15.65	12.33	15.07	13.95	11.40	12.70	12.75
7	13.42	14.69	14.15	11.65	14.55	14.35	11.79	15.30	12.20	13.18	12.69	11.15
8	13.90	14.10	14.14	14.42	15.32	12.50	14.45	14.62	12.00	12.71	13.00	10.63
9	13.74	13.02	13.10	13.54	14.05	12.04	13.90	14.10	14.45	12.83	11.80	12.75
10	13.60	12.25	13.26	13.70	15.10	14.00	14.10	11.98	13.57	12.60	11.55	12.37
11	13.85	13.90	15.82	13.70	12.40	14.45	13.80	11.45	14.95	12.70	11.05	12.50
12	12.53	14.16	15.39	13.30	11.35	15.15	14.00	14.85	14.10	10.50	10.97	12.20
13	11.04	15.25	14.63	12.10	15.00	14.74	12.45	14.65	13.80	11.11	12.55	12.15
14	14.59	14.43	16.27	11.94	14.23	13.83	11.30	14.65	12.15	13.12	13.00	10.90
15	14.80	14.45	15.55	14.20	14.66	11.95	14.40	13.73	11.72	12.50	12.93	10.75
16	13.93	13.61	13.88	14.05	14.45	11.80	14.55	14.02	13.95	12.49	12.00	12.85
17	13.89	13.72	13.06	13.89	14.90	14.80	13.60	12.00	14.10	12.42	11.35	12.70
18	12.29	14.98	15.42	13.50	12.61	14.47	13.75	11.30	13.85	12.75	13.35	12.40
19	11.80	14.28	14.20	11.85	12.00	14.48	13.80	14.00	13.90	11.60	13.80	12.50
20	12.27	15.28	13.89	11.62	15.30	14.50	13.07	13.82	13.80	11.10	12.80	11.94
21	13.27	15.73	14.10	10.80	14.50	13.75	11.90	14.10	12.25	13.15	13.15	11.00
22	13.22	15.14	13.70	13.74	14.58	12.00	15.75	14.40	11.50	12.65	13.00	10.25
23	14.28	13.62	12.22	13.75	14.75	11.17	15.85	14.10	14.15	12.65	11.50	13.01
24	14.16	12.81	11.96	13.55	14.25	14.65	14.45	12.53	14.05	12.70	11.10	11.60
25	13.77	14.62	14.17	13.37	12.70	14.00	14.72	11.80	13.95	12.19	13.15	10.00
26	12.23	14.42	13.82	13.82	11.60	14.35	14.90	14.50	13.20	11.40	12.90	11.55
27	12.40	14.50	13.59	12.87	14.87	13.97	14.20	14.35	13.95	11.30	12.30	11.80
28	14.63	13.51	13.71	10.41	15.20	13.83	13.38	13.80	12.90	12.78	10.67	10.80
29	13.41	.....	13.73	13.90	13.90	11.97	15.83	13.63	10.70	12.85	12.88	10.45
30	14.75	.....	12.45	14.15	11.35	11.66	14.60	14.05	13.65	12.85	11.65	12.55
31	15.13	.....	11.18	.....	13.18	.....	14.18	12.97	.....	13.41	.....	12.03
Total	420.00	408.75	429.25	396.09	426.75	411.83	427.30	423.55	399.44	383.87	366.79	367.35
Aver.	13.55	14.60	13.85	13.20	13.77	13.73	13.78	13.66	13.31	12.38	12.23	11.85

*Emergency connections only.

†Meter clock out of order Jan. 3 and 4. Estimated amount of .88 million gallons added to record.

Total amount for 1918=4,860,970,000 gallons. Daily average=13,320,000 gallons.

APPENDIX XVII.

LITTLE RIVER WATER SUPPLY,
SPRINGFIELD, MASS.

WATER USED BY TOWN OF EAST LONGMEADOW:

METERED AT SPRINGFIELD—E. LONGMEADOW LINE. IN GALLONS.

1918	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	*35,900	26,500	22,200	26,400	26,200	*36,650	28,900	25,900	30,600	27,900	23,000	*22,900
2	28,700	*28,900	*25,650	23,600	31,800	*36,650	23,500	27,500	30,600	22,000	*24,250	21,500
3	32,300	*28,900	*25,650	23,400	24,700	27,600	*30,950	*28,300	26,400	32,300	*24,250	27,900
4	32,100	32,600	20,300	21,100	*22,700	26,500	*30,950	*28,300	30,600	30,100	23,600	22,300
5	*28,900	37,900	*24,750	25,700	*22,700	28,700	32,300	32,000	39,000	*29,400	23,800	25,900
6	*28,900	36,400	*24,750	*28,600	27,300	33,400	*31,900	41,700	27,000	*29,400	26,900	24,100
7	24,900	40,600	31,700	*28,600	23,300	21,500	*31,900	39,300	*28,000	24,900	18,500	*21,900
8	22,000	29,200	18,000	21,200	24,700	*25,550	28,600	*23,950	*28,000	36,500	22,400	*21,900
9	24,400	*36,900	*29,500	22,700	29,500	*25,550	23,400	*23,950	30,500	30,400	*27,800	30,900
10	29,600	*36,900	*29,500	17,600	*25,300	21,900	29,000	*28,750	28,200	34,300	*27,800	23,400
11	22,600	21,900	18,300	*28,700	*25,300	24,000	27,700	*28,750	35,700	*29,525	*20,750	23,900
12	*25,966	21,100	*24,350	*23,800	*25,400	23,400	30,800	27,400	21,300	*29,525	*20,750	23,800
13	*25,967	19,400	*24,350	*24,900	23,100	23,700	*29,200	55,800	27,300	*29,525	23,100	20,500
14	*25,967	17,600	*24,350	*24,900	24,200	23,800	*29,200	14,100	*35,500	*29,525	20,200	*26,250
15	24,500	*29,433	22,100	31,700	30,700	*27,850	33,300	23,900	*35,500	23,300	26,200	*26,250
16	24,900	*29,433	*25,550	22,000	24,100	*27,850	33,200	23,900	26,400	26,300	*27,000	24,300
17	24,100	*29,434	*25,550	33,100	27,000	29,000	27,200	*31,250	27,000	32,600	*27,000	23,700
18	25,900	17,600	25,700	*22,600	*31,200	34,600	29,600	*31,250	32,000	21,400	23,000	22,800
19	*27,300	27,100	27,500	*22,500	*31,200	29,000	28,300	43,800	30,600	*29,200	22,200	22,400
20	*27,300	41,200	21,500	*27,200	27,200	16,900	*33,650	23,000	*27,934	*29,200	29,100	21,400
21	32,100	*28,550	26,800	*27,100	21,900	26,800	*33,650	29,600	*27,933	*29,200	25,300	*25,500
22	26,500	*28,550	20,700	20,800	28,100	*24,550	39,700	40,400	*27,983	*29,200	20,000	*25,500
23	27,500	*31,950	*26,450	32,200	26,800	*24,550	46,300	30,600	41,400	*30,000	*27,650	32,300
24	25,900	*31,950	*26,450	24,400	25,700	23,200	31,000	*28,850	16,800	*30,000	*27,650	*21,050
25	22,900	18,600	22,100	24,400	*25,900	30,100	29,000	*28,850	*28,934	26,900	18,300	*21,050
26	*24,300	24,700	22,700	24,200	*25,900	22,000	37,400	44,100	*28,933	*30,500	18,900	23,200
27	*24,300	27,600	21,900	*29,400	27,100	26,000	*40,450	24,300	*28,933	*30,500	23,900	24,100
28	23,200	23,700	20,000	*29,300	27,400	28,400	*40,450	24,000	*30,450	28,400	29,400	*27,100
29	28,700	.....	25,500	26,400	*27,900	*29,600	36,600	30,600	*30,450	24,500	23,900	*27,100
30	37,900	.....	*24,600	24,600	*27,900	*29,600	27,600	34,100	28,200	24,500	*22,600	22,700
31	24,100	.....	*24,600	.....	20,100	.....	27,300	30,600	.....	22,600	.....	*22,900
Total	889,500	804,600	754,000	758,100	812,300	808,900	983,500	953,700	888,100	889,600	719,200	750,100
Aver.	27,081	28,736	24,323	25,270	26,200	26,963	31,726	30,764	29,603	25,500	24,000	24,300

*Daily averages computed from readings taken two or more days apart.

Total amount for 1918=9,955,600 gallons. Daily average=27,276 gallons.

APPENDIX XVIII.

LITTLE RIVER WATER SUPPLY,
SPRINGFIELD, MASS.

WATER USED BY TOWN OF AGAWAM.

METERED ON 42" LINE—FEEDING HILLS.

IN GALLONS.

1918	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	250,200	28,400	73,700	98,500	116,500	*188,550	125,300	180,600	109,700	132,700	115,000	84,500
2	250,060	80,200	*102,125	*99,400	175,100	*188,550	109,100	187,700	154,600	112,900	*113,100	112,100
3	114,300	*146,500	*102,125	*89,700	127,100	190,400	111,700	*194,200	143,300	115,400	*113,100	111,100
4	115,000	*146,500	*102,125	*87,800	*140,940	186,400	152,500	*194,200	133,500	108,500	45,100	83,200
5	*96,300	*146,500	*102,125	*88,200	*140,940	*152,275	142,200	214,400	*130,450	*106,650	87,600	77,900
6	*95,200	171,900	61,700	*91,550	*140,940	*152,275	*146,500	165,900	*130,450	*106,650	100,300	94,400
7	*95,200	148,500	*81,200	*91,550	*140,940	*152,275	*146,500	196,900	*107,800	114,900	*111,300	*95,467
8	*96,200	190,000	*81,200	89,800	*140,940	*152,275	179,800	164,900	*107,800	130,300	*111,300	*95,466
9	*95,200	*197,500	*81,200	73,700	141,600	*152,275	163,500	155,400	138,000	122,200	*87,167	*95,467
10	*95,200	*197,500	*81,200	313,000	262,300	*152,275	236,700	*146,600	129,900	165,400	*87,166	*91,950
11	*95,200	*193,066	186,600	82,200	328,000	*152,275	100,000	*146,600	132,200	55,800	*87,167	*91,950
12	*95,200	*193,067	*91,800	*81,475	299,200	*152,275	333,400	115,100	105,700	*105,250	*108,200	87,800
13	*96,200	*193,067	*91,800	*81,475	*112,400	179,200	*164,000	187,800	120,700	*106,280	*108,200	79,900
14	*81,475	*175,550	93,300	*81,475	*112,400	156,500	*164,000	193,700	*63,100	89,900	*108,200	*110,100
15	*81,475	*175,550	64,800	*81,475	*112,400	370,100	157,500	187,100	*63,100	88,600	126,300	*110,100
16	*81,475	158,900	*83,050	122,900	142,000	184,100	187,100	143,800	199,200	*90,450	*109,233	*121,600
17	*81,475	221,300	*83,050	122,900	191,600	*112,366	97,400	*194,333	*99,700	*90,450	*109,234	*121,600
18	*99,633	*204,800	*83,050	124,500	*172,650	*112,367	154,800	*194,334	*99,700	96,900	*109,233	101,300
19	*99,633	*204,800	*83,050	113,000	*172,650	*112,367	144,400	*194,333	*99,700	*104,450	155,500	95,100
20	*99,634	174,900	91,400	*167,550	154,100	188,500	*147,800	151,400	110,500	*104,450	*51,600	*90,100
21	96,100	113,400	83,700	*167,550	136,400	164,400	*147,800	132,000	*95,600	127,000	*51,600	*90,100
22	*96,350	106,400	78,100	129,800	162,100	*141,750	293,200	144,600	*95,600	63,300	*51,600	*90,100
23	*96,350	*121,400	*93,050	111,600	166,400	*141,750	232,400	141,800	125,100	89,800	*118,300	*90,100
24	106,300	*121,400	*93,050	126,800	149,200	127,500	*197,800	*147,950	110,800	103,200	*118,300	*90,100
25	*79,950	106,300	87,600	99,500	*145,650	138,400	*197,800	*147,950	*112,300	102,900	*66,950	91,200
26	*79,950	107,300	87,500	125,800	*145,650	130,000	230,200	*66,100	*112,300	*113,550	*66,950	*107,000
27	129,500	101,000	79,600	*123,200	147,900	146,400	*304,900	*66,100	121,000	*113,550	*115,667	*107,000
28	112,500	79,800	91,800	*123,200	210,200	106,100	*304,900	170,500	*121,250	*116,450	*115,666	*96,850
29	87,700	.....	73,400	115,800	*111,700	*126,150	221,500	235,600	*121,250	*116,450	*115,667	96,850
30	52,800	.....	*108,700	117,600	*111,700	*126,150	177,200	*178,600	111,300	89,500	90,900	79,600
31	19,600	.....	*108,700	.....	153,100	.....	144,100	*178,600	.....	84,200	.....	96,900
Total	3,207,800	4,206,500	2,805,800	3,422,800	4,964,700	4,736,200	5,616,000	5,108,100	3,503,000	3,266,800	2,956,200	2,984,800
Aver.	103,477	150,232	90,510	114,093	160,150	157,870	181,161	164,770	116,853	105,380	98,540	96,920

*Daily averages computed from readings taken two or more days apart

†Meter recording device out of order. Estimated amount of 280,000 gallons added to April 2-5 record.

Total amount for 1918—46,781,100 gallons. Daily average = 128,170 gallons.

APPENDIX XIX.

LITTLE RIVER WATER SUPPLY,
SPRINGFIELD, MASS.

WATER USED BY TOWN OF WEST SPRINGFIELD.

METERED AT KING'S HIGHWAY.

IN GALLONS.

1918	Nov.
1	.....
2	.....
3	.....
4	.....
5	.....
6	262,567
7	448,831
8	466,028
9	*411,802
10	*411,803
11	421,901
12	*466,535
13	*466,536
14	*466,535
15	*436,862
16	*436,863
17	*436,862
18	.....
19	.....
20	.....
21	.....
22	.....
23	.....
24	.....
25	.....
26	.....
27	.....
28	.....
29	.....
30	.....
31	.....
Total	5,136,125
Aver.	428,010

*Daily averages computed from readings taken two or more days apart.

Total amount for 1918 (12 days) = 5,136,125 gallons.

APPENDIX XX.

LITTLE RIVER WATER SUPPLY,
SPRINGFIELD, MASS.

WATER USED BY CITY OF CHICOPEE.

METERED ON NORTH MAIN ST.

IN GALLONS.

1918	Jan.	Feb.	Mar.	Apr.	May
1		742,068	497,454		
2		*632,477	*489,600		
3		*632,478	*489,600		
4		*588,106	491,470		
5		*588,107	*501,943		
6		584,976	*501,943		
7		577,496	444,348		
8		614,151	570,015		
9		*515,084	*451,075		
10		*515,084	*451,075		
11		*560,291	565,527		175,044
12		*560,291	*562,909		
13		960,774	*562,909		
14		265,559	576,000		
15		*562,062	448,083		
16		*562,062	*628,738		
17		*562,063	*628,738		
18		483,870	400,208		
19		526,628			
20		606,671			
21		*454,815			
22		*454,816			
23		*514,660			
24		*514,660			
25		539,345			
26		570,768			
27		*586,846			
28		*586,847			
29					
30					
31	480,249				
Total	480,249	15,762,950	9,261,630		175,044
Aver.	480,249	562,963	514,535		175,044

*Daily averages computed from readings taken two or more days apart.
Total amount for 1918 (48 days) = 25,679,873 gallons.

APPENDIX XXI.

LITTLE RIVER WATER SUPPLY,
SPRINGFIELD, MASS.

WATER USED IN CITY OF SPRINGFIELD.

METERED AT PROVIN MOUNTAIN.

IN MILLION GALLONS.

1918	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	13.16	15.20	13.27	14.28	13.65	12.86	14.04	14.24	11.56	12.64	11.91	10.72
2	14.36	13.50	12.19	14.06	13.94	12.42	13.42	14.29	12.02	12.82	11.22	12.72
3	14.24	13.12	11.81	13.91	13.80	15.56	13.51	12.56	13.73	12.75	11.06	12.66
4	14.43	15.33	13.94	13.55	11.74	14.58	12.72	11.83	14.39	12.91	12.28	12.60
5	13.53	17.21	13.22	13.79	11.29	15.27	11.78	14.25	14.33	11.10	12.19	12.50
6	12.44	16.56	13.78	11.69	14.53	15.47	12.15	14.86	13.79	11.26	12.31	12.64
7	13.31	13.92	13.60	11.53	14.39	14.18	11.61	15.07	12.06	13.04	12.11	11.03
8	13.48	13.27	13.47	14.31	15.15	12.32	14.24	14.44	11.86	12.54	12.40	10.52
9	13.63	12.26	12.54	13.44	13.88	11.85	13.72	13.92	14.28	12.68	11.27	12.62
10	13.49	11.49	12.70	13.37	14.81	13.83	13.83	11.80	13.41	12.40	11.03	12.26
11	13.72	13.13	15.04	13.59	11.88	14.28	13.67	11.27	14.79	12.61	10.52	12.39
12	12.39	13.39	14.72	13.10	11.02	14.98	13.64	14.71	13.97	10.37	10.37	12.09
13	10.92	14.09	13.96	11.99	14.87	14.54	12.26	14.41	13.66	10.97	11.97	12.05
14	14.48	13.96	15.57	11.83	14.09	13.65	11.11	14.44	12.05	13.00	12.40	10.76
15	14.70	13.69	15.01	14.09	14.52	11.55	14.21	13.52	11.63	12.39	12.33	10.62
16	13.82	12.87	13.13	13.90	14.29	11.59	14.33	13.85	13.73	12.37	11.43	12.71
17	13.70	12.92	12.32	13.73	14.68	14.66	13.47	11.77	13.97	12.30	10.77	12.56
18	12.16	14.33	14.91	13.35	12.41	14.33	13.57	11.08	13.72	12.63	13.22	12.25
19	11.67	13.52	14.09	11.71	11.80	14.34	13.63	13.76	13.77	11.47	13.42	12.38
20	12.14	14.46	13.78	11.43	15.12	14.29	12.89	13.64	13.66	10.96	12.72	11.83
21	13.14	15.14	13.99	10.61	14.34	13.56	11.72	13.94	12.12	12.99	13.07	10.89
22	13.09	14.55	13.60	13.59	14.39	11.84	15.42	14.21	11.37	12.56	12.93	10.14
23	14.25	13.25	12.10	13.61	14.55	11.01	15.57	13.93	13.98	12.53	11.35	12.89
24	14.02	12.14	11.84	13.70	14.08	14.50	14.22	12.35	13.92	12.57	10.95	11.49
25	13.67	13.95	14.06	13.25	12.52	13.83	14.49	11.63	13.81	12.06	13.06	9.89
26	12.13	13.72	13.71	13.67	11.43	14.20	14.63	14.39	13.06	11.26	12.82	11.43
27	12.25	13.88	13.49	12.72	14.69	13.79	13.85	14.26	13.80	11.16	12.16	11.68
28	14.50	13.12	13.60	10.26	14.96	13.69	13.03	13.61	12.65	12.63	10.53	10.67
29	13.29	.....	13.62	13.76	13.76	11.81	15.57	13.36	10.55	12.71	12.74	10.22
30	14.66	.....	12.32	14.01	11.22	11.50	14.39	13.84	13.41	12.73	11.44	12.45
31	14.61	.....	11.05	.....	13.01	.....	14.01	12.76	.....	13.31	.....	11.91
Total	415.47	387.97	416.43	391.91	420.81	406.28	420.70	417.49	395.06	379.72	357.98	363.61
Aver.	13.40	13.86	13.43	13.06	13.57	13.54	13.57	13.47	13.17	12.25	11.93	11.73

N. B.—About eighty houses in Wilbraham supplied with Little River water.

Total amount for 1918=4,733,420,000 gallons. Daily average=12,970,000 gallons.

APPENDIX XXII.

LUDLOW RESERVOIR SUPPLY,
SPRINGFIELD, MASS.

WATER USED BY LUDLOW MANUFACTURING ASSOCIATES.

METERED AT LUDLOW MAIN NO. 1.

IN GALLONS.

1918	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1				154,000	111,000	196,000	109,000	259,000	*220,000	277,000	253,000	*197,000
2				141,000	138,000	256,000	95,000	266,000	176,000	237,000	*222,000	239,000
3				180,000	158,000	224,000	*114,500	*221,000	303,000	237,000	*222,000	250,000
4				217,000	89,000	173,000	*114,500	*221,000	320,000	237,000	228,000	276,000
5				258,000	173,000	246,000	149,000	255,000	326,000	*222,500	227,000	259,000
6				155,000	187,000	158,000	*132,500	302,000	304,000	*222,500	230,000	236,000
7				156,000	176,000	173,000	*132,500	298,000	*257,500	237,000	250,000	*202,500
8				158,000	199,000	134,000	138,000	468,000	*257,500	220,000	238,000	*202,500
9				112,000	203,000	154,000	355,000	297,000	288,000	*237,000	*192,500	237,000
10				146,000	222,000	138,000	199,000	†223,000	310,000	*237,000	*192,500	213,000
11				108,000	119,000	166,000	206,000	†244,000	310,000	254,000	151,000	202,000
12				131,000	180,000	138,000	239,000	†325,000	307,000	*193,000	159,000	225,000
13				111,000	176,000	135,000	*201,000	236,000	293,000	*193,000	228,000	215,000
14				111,000	161,000	176,000	*201,000	290,000	*256,500	214,000	248,000	*191,500
15				124,000	189,000	135,000	265,000	270,000	*256,500	229,000	264,000	*191,500
16				234,000	187,000	193,000	329,000	302,000	361,000	233,000	*187,500	294,000
17				157,000	250,000	242,000	412,000	*249,500	342,000	254,000	*187,500	248,000
18				88,000	134,000	426,000	231,000	*249,500	279,000	255,000	242,000	295,000
19				134,000	147,000	272,000	215,000	336,000	305,000	*202,500	216,000	396,000
20				89,000	234,000	254,000	*240,000	279,000	269,000	*202,500	290,000	319,000
21				112,000	180,000	265,000	*240,000	296,000	*225,500	237,000	370,000	*261,000
22				146,000	170,000	166,000	319,000	310,000	*225,500	241,000	227,000	*261,000
23				141,000	187,000	199,000	316,000	326,000	257,000	236,000	*201,000	340,000
24				134,000	180,000	147,000	469,000	*288,000	257,000	229,000	*201,000	*253,500
25				131,000	62,000	569,000	369,000	*288,000	267,000	229,000	236,000	*253,500
26				157,000	157,000	384,000	276,000	305,000	246,000	*210,500	231,000	267,000
27				84,000	250,000	176,000	*283,500	291,000	286,000	*210,500	*194,500	316,000
28				154,000	326,000	216,000	*283,500	306,000	*254,500	231,000	*194,500	*277,000
29				111,000	226,000	180,000	319,000	293,000	*254,500	231,000	258,000	*277,000
30				138,000	238,000	203,000	264,000	276,000	273,000	234,000	*197,000	364,000
31				....	185,000	....	252,000	*220,000	....	248,000	....	263,000
Total	6,708,000	5,935,000	5,522,000	4,272,000	5,588,000	6,494,000	7,469,000	8,790,000	8,287,000	7,131,000	6,738,000	8,022,000
Aver.	216,000	212,000	178,000	142,000	180,000	216,000	241,000	284,000	276,000	230,000	225,000	259,000

*Daily averages computed from readings taken two or more days apart. †=Charts planimetered.

Total amount for 1918=80,956,000 gallons. Daily average=221,800 gallons.

APPENDIX XXIII.

LITTLE RIVER WATER SUPPLY,
SPRINGFIELD, MASS.

OPERATING DETAILS OF WEST PARISH FILTERS—1918.

E. C. COTTON,
Superintendent.L. G. CARLTON,
Assistant Engineer.

FILTERS SCRAPED

MONTH	NUMBER	CUBIC YARDS OF SAND REMOVED			DEPTH IN INCHES		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	1	140	140	140	2.0	2.0	2.0
February	1	140	140	140	2.0	2.0	2.0
March	8	140	105	117	2.0	1.5	1.7
April	2	280	140	210	4.0	2.0	3.0
May	2	140	140	140	2.0	2.0	2.0
June	4	420	105	201	6.0	1.5	2.9
July	8	140	105	117	2.0	1.5	1.7
August	2	140	140	140	2.0	2.0	2.0
September	2	140	140	140	2.0	2.0	2.0
October	4	560	140	245	8.0	2.0	3.5
November	2	140	140	140	2.0	2.0	2.0
December	1	140	140	140	2.0	2.0	2.0
Year	27	560	105	163	8.0	1.5	2.3

FILTER RUNS AFTER SCRAPINGS

MONTH	NUMBER ENDING IN	MILLION GALLONS FILTERED			DURATION IN DAYS		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	1	157.01	157.01	157.01	67	67	67
February	2	229.72	217.80	223.76	92	84	88
March	2	218.54	148.81	181.07	90	60	75
April	8	181.59	127.59	180.04	58	48	51
May	4	146.20	84.00	107.13	63	38	47
June	1	73.87	73.87	73.87	27	27	27
July	8	120.98	94.79	105.16	48	38	41
August	8	135.02	88.52	116.27	50	38	45
September	4	125.23	72.44	90.71	46	32	38
October	0	.....	.....	.....	.....	.....	.....
November	8	112.61	74.22	96.41	46	37	42
December	8	140.08	108.53	119.80	51	43	47
Year	29	229.72	72.44	121.89	92	27	50

OPERATING DETAILS OF WEST PARISH FILTERS—1918—Concluded.

FILTER RUNS AFTER RAKINGS							
MONTH	NUMBER ENDING IN	MILLION GALLONS FILTERED			DURATION IN DAYS		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January.....	1	107.85	107.85	107.85	48	48	48
February.....	1	121.82	121.82	121.82	58	58	58
March.....	1	119.88	119.88	119.88	48	48	48
April.....	1	158.19	158.19	158.19	58	58	58
May.....	1	60.58	60.58	60.58	28	28	28
June.....	4	104.28	64.18	78.06	66	22	36
July.....	1	80.04	80.04	80.04	32	32	32
August.....	1	92.70	92.70	92.70	25	25	25
September.....	1	92.83	92.83	92.83	39	39	39
October.....	4	96.65	45.63	65.21	40	23	33
November.....	0	.....	.....	.....	.....	.....	.....
December.....	1	95.24	95.24	95.24	44	44	44
Year.....	17	158.19	45.63	88.36	65	22	37

FILTERS RESANDED						
NUMBER	CUBIC YARDS OF SAND REPLACED			DEPTH IN INCHES		
	Maximum	Minimum	Average	Maximum	Minimum	Average
2	2100	2100	2100	30	30	30

MILLIONS OF GALLONS		
FILTERED	TO SAND WASHER	PER CENT
4868.04	18.68	.38

COST PER MILLION GALLONS DELIVERED TO CITY								
	Supervision and Laboratory	Sand Handling	Coagulant	Grounds and Buildings	Equipment	Miscellaneous	Increase in Inventory	Total
Labor	\$0.80	\$0.61	\$0.20	\$1.00	\$0.38	\$0.12	.....	\$3.06
Materials..	.15	.03	.67	.09	.48	.07	+\$0.18	1.67
Total ..	\$0.95	\$0.64	\$0.87	\$1.09	\$0.81	\$0.19	+\$0.18	\$4.78

APPENDIX XXIV.

LITTLE RIVER WATER SUPPLY. SPRINGFIELD, MASS.

E. C. COTTON,
Superintendent.

L. G. CARLTON,
Assistant Engineer.

OPERATING COSTS OF WEST PARISH FILTERS—1918.

CLASSIFICATION.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	YEARLY TOTALS.
Care of,—													
Groceries.....	\$142.56	\$212.68	\$388.48	\$170.99	\$394.42	\$246.83	\$212.31	\$292.61	\$308.56	\$59.48	\$98.40	\$39.36	\$2,587.68
Buildings.....	27.20	18.32	43.36	27.68	68.32	3.04	53.29	118.94	100.77	45.92	11.48	3.28	554.92
Equipment.....	113.78	198.10	169.22	107.48	126.34	126.80	78.25	132.90	97.58	60.76	177.66	136.27	1,588.41
Telephone.....								12.15					12.15
Supervision.....	242.04	242.04	265.05	242.04	242.04	265.05	249.72	274.55	249.72	249.72	274.80	249.72	3,045.59
Laboratory.....	65.28	65.28	81.60	65.28	27.36	63.84	72.96	69.92	74.24	86.92	100.04	78.72	881.44
Cash and—													
Hauling.....			30.38	19.04	22.38							164.00	235.80
Sweeping.....			19.04	5.44	28.12								47.60
Manufacturing.....			48.48	68.80	12.16		54.72	79.38	60.12	105.78	145.32	110.70	685.41
Stableman.....	61.44	61.44	76.80	61.76	71.04	91.20	72.96	91.20	77.28	75.44	78.72	78.72	898.00
Watchmen.....	131.28	114.78	159.38	131.28	102.30						78.40		874.22
Ice Harvest.....	180.08	10.88											160.96
Vacation Pay Roll.....	86.40	46.08		5.84	50.88		20.00			19.68	155.12	69.75	463.75
Total.....	\$1,020.06	\$968.60	\$1,281.79	\$905.55	\$1,184.56	\$796.76	\$814.41	\$1,134.90	\$968.27	\$703.70	\$1,119.94	\$1,087.32	\$11,985.26
Filter No. 1,—													
Cleaning.....		\$7.00		\$72.32		\$89.82		\$8.09	\$84.66		\$11.18	\$94.81	\$367.38
Resanding.....													
Filter No. 2,—													
Cleaning.....		19.14	\$52.68	84.76	\$58.65	7.34	\$50.90	64.71	76.88		89.87		504.88
Resanding.....													
Filter No. 3,—													
Cleaning.....	\$58.32				8.86	56.98	10.64	55.45	14.91	\$131.02			335.68
Resanding.....										94.66	272.14		866.80
Filter No. 4,—													
Cleaning.....		90.00				121.58				54.86		10.06	276.46
Resanding.....						122.49							425.99
Filter No. 5,—													
Cleaning.....	12.54		65.90		8.86	67.75		77.76	6.93	79.81	56.34		375.39
Resanding.....													

APPENDIX XXV.

MUNICIPAL WATER WORKS,
SPRINGFIELD, MASS.

TABLE OF RAINFALL—1918.

IN INCHES.

Location	Borden Brook Reser- voir, Granville	West Parish Filters, Westfield	Provin Moun- tain Reser- voir, Agawam	Ludlow Reservoir		Admin- istration Building, Spring- field	U. S. Armory, Spring- field
	Care- taker, S.W.W.	Superin- tendent, S.W.W.	Care- taker, S.W.W.	Gate House, Ludlow	Filters, Ludlow	City Engi- neer.	U. S. A.
January, ...	3.40	4.27	2.29	2.47	2.05	3.58	3.73
February, ...	3.82	3.59	3.28	2.58	2.65	2.00	3.13
March, ...	2.83	2.37	2.10	1.93	1.24	2.98	2.18
April, ...	3.51	3.11	2.64	2.10	1.93	2.69	2.98
May, ...	2.02	2.18	2.32	2.59	2.57	2.92	1.47
June, ...	2.35	3.84	3.69	4.11	4.70	4.07	3.39
July, ...	2.65	1.67	1.81	1.59	1.71	2.94	1.76
August, ...	4.06	4.11	4.11	3.80	3.93	2.18	3.14
September, ...	6.83	6.07	6.21	4.83	5.51	6.18	5.40
October, ...	1.47	1.48	1.12	1.32	1.34	1.04	0.68
November, ...	2.92	3.32	2.15	1.99	1.99	2.79	2.10
December, ...	3.83	4.19	3.57	2.21	2.59	3.50	5.09
Totals, ...	39.69	40.20	35.29	31.52	32.21	36.87	35.05
Mean, ...	3.30	3.35	2.94	2.63	2.69	3.07	2.92

STREETS AND ENGINEERING

REPORT
OF THE
**DEPARTMENT OF STREETS AND
ENGINEERING**

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1918

ADMINISTRATIVE

SPRINGFIELD, MASS., December 30, 1918.

To the Honorable City Council:—

In accordance with the provisions of Chapter 19, Section 5, of the Revised Ordinances, I herewith submit for your consideration a report covering the activities of the Department of Streets and Engineering for the fiscal year of 1918. As a part of and supplementing the report of your superintendent are included the reports of the deputy heads of the several divisions comprising this department. The recommendations contained therein are most heartily indorsed. In submitting this report a word of explanation of the many difficulties encountered in the performance of the functions of the department may properly be offered. Abnormal labor conditions, prohibitive cost of material, and in many instances the impossibility of procuring same, excessive cost of operating plant and equipment, and the unusual increases in general expense due to war conditions and governmental restrictions tend to make a report for the fiscal year 1918 incomparable with other annual reports of this department.

The Street Division has in its accomplishments exceeded expectations. Admirably managed by the deputy superintendent, assisted by the hearty co-operation of a staff of able and efficient foremen, your Street Division has completed work unfinished in 1917, taken on and brought to a successful close the widening and extension of Dwight street, and handled many other construction problems, including most necessary and essential

bridge repair work. Your streets have been oiled for maintenance and the prevention of dust, with less public inconvenience and complaint than ever before. The streets have been promptly repaired and have been generally kept in a clean condition.

The Sewer Division of this department has been severely handicapped in its functions by the conditions affecting all construction work during the season, but in spite of many discouraging events has come through the year with credit to the department. It has maintained its organization, solved its many problems, completed considerable new construction, cared for our large and extensive sewer system with a minimum of complaint, and is prepared to engage upon any extensive and considerable program of sewer construction and expansion which may be undertaken. I earnestly recommend that serious consideration be given to a comprehensive study of the sewerage problem of your city, and that the advice of qualified authorities on this subject be sought, for it is the belief of your superintendent that the time is not far distant when a complete rearrangement of our system will be in order and a new problem of sewage disposal brought upon us.

The Engineering Division has been handicapped by the demands of our Government for men and although its force has been reduced it has filled the needs of the department and the requirements of various other city departments faithfully and efficiently. Slight changes are contemplated in this division because of the nature of the demands made upon it. The requirements of the Board of Public Works have made it necessary to assign to that branch of the engineering work the entire attention of the deputy city engineer, whose long and faithful service in this department has given him an invaluable knowledge of the conditions necessary for the successful administration of such an important organization. Advantage will be taken of his wide experience and ability by his assignment as consulting and advisory engineer for the entire department. An assistant deputy city engineer will assume the active detail work of the division and take charge of all engineering not required by the Board of Public Works. In the opinion of your superintendent the topographical survey of the city should be hastened to completion in order that the comprehensive study of the sewage problem may be expedited and the information derived from several years' work be utilized to advantage in planning sewer construction for the future.

The Street Lighting Department has had less new installation this year than for several years due to general conditions. It is recommended that this division be assisted generously as the importance of properly lighting our city has a direct bearing on public safety. The rapidly

changing traffic conditions make it imperative that we keep pace with the requirements of our people and it is in keeping with Springfield ideals if we succeed in having the best lighted city in the country. The deputy superintendent of this division has made an exhaustive study of the situation and is well qualified to carry on this essential and important work.

The Waste Disposal Division has encountered many difficulties in its work and has completed the year with credit to the department. No other division comes in direct contact with our citizens to such an extent as does this department and many complaints of necessity result. New methods have been devised to eliminate and care for these complaints which will result in greater efficiency in operation. The problem of this department, the collection and disposal of waste materials, is and has been a real one. The labor situation affected this division more noticeably than in any other division and the recent spread of influenza nearly crippled the work. Your superintendent desires to express his appreciation of the work of the deputy in charge of this division, under the most trying conditions, and I am confident that the future will show vast improvement in the operation and functioning of the Waste Disposal Division. I heartily concur with the opinion of the deputy of this division in recommending the operation of the incinerating plant by contract. The garbage situation has been unsatisfactory during the past year and immediate changes in the methods of disposal of our garbage should be made.

In conclusion your superintendent desires to call your attention to the personnel of the department, particularly to the foremen, who are able, efficient, and loyal, and to express his appreciation to all who have assisted in maintaining the operation of the Department of Streets and Engineering during the past year.

To His Honor, Mayor Frank E. Stacy, to Alderman John J. Lester, and to Councilman Seth H. Barlow, comprising your board of supervisors, I am indebted for many helpful suggestions and I desire at this time to thank them for their active interest in the direction of the affairs of this department.

Respectfully submitted,

ROBERT P. MARSH,

Superintendent of Streets and Engineering.

INVENTORY.

DEPARTMENT OF STREETS AND ENGINEERING.

LANDS.

Abbe avenue, at crossing, ...	\$10,400.00
Ashes and Garbage Station, State street, ...	28,800.00
Birnie avenue extension, easterly side, ...	1,000.00
City Yard, Logan street, ...	10,800.00
City Yard, Pecousic avenue, east side, ...	19,000.00
City Yard, Pecousic avenue, west side, ...	11,000.00
City Yard, Summer street, ...	153,400.00
Gravel Bank, Boston road, ...	450.00
Gravel Bank, Five Mile pond, ...	4,500.00
Gravel Bank, Island pond, ...	300.00
Longhill dump, ...	8,000.00
West street dump, ...	15,000.00
<i>Salable Land:</i>	
Abbe avenue, Fisk avenue and B. & M. R. R. slopes, . . . . .	.....
Adams street, westerly corner of Dwight street extension, ...	1,200.00
67 Arch street, ...	1,000.00
Carew street, at Eddy street, ...	800.00
Carew street, between Baltimore and Fleetwood streets, ...	600.00
Dwight street, Mack lot, ...	20.00
Dwight street, Mahoney, Perkins, and Alden lots, ...	29,000.00
Dwight street, Collins lot, ...	14,000.00
Dwight street, Leary lot, ...	29,000.00
Dwight street, Puffer lot, ...	15,300.00
Dwight street, King lot, south of Sanford, ...	350.00
Dwight street, King lot, north of Sanford, ...	200.00
Fulton street, Menard lot, ...	1,600.00
Fulton street, Barrett lot, ...	1,700.00
Fulton street, King lot, ...	1,300.00
Fulton street, Albert lot, ...	2,700.00
Fulton street, Phillips lot, ...	5,150.00
Fulton street, Beausang lot, ...	2,650.00
Fulton street, Farrell lot, corner of Clinton street, ...	4,000.00
Fulton street, Haley lot, ...	1,500.00
Fulton street, Smith Realty Trust lot, ...	1,600.00
Fulton street, O'Connor lot, ...	1,850.00
Fulton street, Treuchett lot, ...	1,850.00
Fulton street, Goldrick lot, ...	1,400.00
Fulton street, Ryan lot, ...	1,000.00
Fulton street, Langford lot, ...	2,500.00
Fulton street, P. J. Mitchell lot, ...	6,000.00
Fulton street, K. C. Mitchell lot, ...	800.00
Fulton street, J. J. Mitchell lot, ...	900.00
Fulton street, Flanagan lot, ...	4,000.00
Locust street, ...	2,070.00
Locust street, northerly side, near Belmont avenue, ...	300.00
Marble street, westerly corner Dwight street extension, ...	2,000.00

Marble street, easterly side Dwight street extension,.....	\$1,000.00	
Marshall street, Bailey lot,.....	300.00	
Marshall street, Lewis lot,.....	350.00	
Page boulevard,.....	400.00	
Pecousic avenue, between Pecousic avenue and South street,.....	2,000.00	
Switzer avenue, corner County street,.....	200.00	
		\$405,240.00

BUILDINGS.

Dwight street, Leary building,.....	\$800.00	
Emery street shop,.....	26,000.00	
Logan street incinerator,.....	25,000.00	
Pecousic avenue, east side,.....	4,600.00	
Pecousic avenue, west side,.....	22,000.00	
State street buildings,.....	23,800.00	
Summer street buildings,.....	29,200.00	
Trap rock bins,.....	10,000.00	
Cement shed and platform,.....	300.00	
Incinerator, West street,.....	7,000.00	
		\$148,700.00

EQUIPMENT.

Asphalt plant,.....	\$7,546.57	
Automobiles,.....	3,190.00	
Blacksmith shop,.....	1,163.12	
Carpenter shop,.....	945.37	
Concrete mixer,.....	3,032.96	
Engineering division,.....	3,421.70	
Garage,.....	952.05	
Harness and fittings,.....	1,933.25	
Highway and road machinery,.....	4,688.17	
Horses,.....	10,900.00	
Laboratory,.....	353.19	
Machine shop,.....	608.21	
Merg plant,.....	6,808.00	
Motorcycles,.....	375.00	
Motor trucks,.....	22,464.50	
Office furniture,.....	1,611.09	
Patterns,.....	278.00	
Sewer division,.....	425.11	
Sleighs and sleds,.....	1,744.52	
Stables and yards,.....	1,837.40	
Steam roller,.....	16,567.52	
Steam shovel,.....	1,356.77	
Steam truck,.....	3,600.00	
Street cleaning division,.....	2,167.25	
Street lighting division,.....	1,015.00	
Wagons and carts,.....	6,640.00	
Water carts,.....	1,011.32	
		\$106,636.07

SMALL TOOLS AND PERISHABLE EQUIPMENT.

Small tools and perishable equipment,.....	\$8,435.08
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SUPPLIES AND MATERIALS.

In stock at Summer street yard,.....	\$18,314.91	
In stock at Emery street, South End yard, Logan street and State street,.....	27,163.09	
In stock at Indian Orchard yard,.....	381.83	
Car tickets,.....	41.09	
Granite block account,.....	402.76	
Granite curbing account,.....	5,629.52	
Wood block account,.....	3,835.44	
		<u>\$55,768.64</u>

RECAPITULATION.

Lands,.....	\$405,240.00
Buildings and structures,.....	148,700.00
Equipment,.....	106,636.07
Small tools and perishable equipment,.....	8,435.08
Supplies and materials,.....	55,768.64
	<u>\$724,779.79</u>

RECONCILIATION OF "EXPENDITURES FROM APPROPRIATIONS" TO AMOUNT
OF "COST OF WORK PERFORMED."

"Cost of Work Performed" as per statement,.....	\$1,024,766.97	
Deduct		
Charge for "Depreciation of Equipment" not included in charges against appropriation,	\$17,960.09	
Expenditures for "Capital Accounts" not reap- propriated,.....	36,388.64	
"Forestry Work" done for Park Department,	1,503.83	
Balance of Adjustment Account,.....	310.59	
		<u>56,163.15</u>
		<u>\$968,603.82</u>
Add		
Overhead and equipment expense unapplied, .	\$6,030.05	
Purchase and manufacture of equipment,....	7,242.56	
Purchase and manufacture of small tools, ...	7,370.13	
Increase in material and supplies inventory.		
Inventory, 1918,.....	\$55,768.64	
Inventory, 1917,.....	42,161.90	
		<u>13,606.74</u>
		<u>34,249.48</u>
		<u>\$1,002,853.30</u>

STATEMENT OF EXPENDITURES FROM APPROPRIATIONS.

Title of Account.	Original Appropriation.	Credit Transfers.	Debit Transfers.	Total Amount Available.	Expended.	Unexpended Balance.	Encumbrances.	Unencumbered Balance.
Administration.....	\$35,257.73			\$35,257.73	\$32,340.65	\$2,917.08	\$192.25	\$2,724.83
Engineering.....	30,222.45	\$4,450.00		26,472.45	22,701.04	3,771.41	54.25	3,717.16
Sewers.....	60,546.84	2,000.00		58,546.84	57,343.10	1,203.74	85.60	1,118.14
Garbage.....	27,347.36		\$3,000.00	30,347.36	29,356.53	990.83		990.83
Ashes and Refuse.....	85,358.63		13,500.00	108,858.63	101,764.20	2,094.43		2,094.43
Highways.....	235,433.24		75,882.80	311,316.04	303,353.89	7,962.15	5,415.92	2,546.23
Street Cleaning.....	94,588.35		5,700.00	100,288.35	100,056.98	231.37		231.37
Bridges.....	17,854.95		12,946.89	30,801.84	30,432.70	319.14		319.14
Sidewalks and Curbing.....	39,576.08	6,000.00		33,576.08	30,714.03	2,862.05	631.35	2,240.70
Street Sprinkling.....	14,062.50			14,062.50	11,210.24	2,852.26		2,852.26
Street Oiling.....	35,648.12	10,525.00		25,123.12	21,957.35	3,165.77		3,165.77
Street Lighting.....	141,375.94			141,375.94	139,757.73	1,618.21	18.00	1,600.21
Repair Shop.....	19,900.53		5,600.00	25,500.53	23,430.31	2,070.22	23.80	1,996.92
Stable and Yards.....	92,946.35		15,475.00	108,421.35	101,897.67	6,524.18	2,255.00	4,269.18
WS-216—Stock.....	45,000.00			45,000.00	3,563.13*	48,563.12	6,370.95	41,992.17
Credits available for reappropriation.....		114,129.69	150,518.33	36,388.64		36,388.64		36,388.64
	\$975,249.63	\$137,104.69	\$287,633.02	\$1,126,367.95	\$1,002,353.30	\$123,514.65	\$15,855.76	\$107,658.89

* Credit in excess of charges.

CAPITAL ACCOUNTS.

Title of Account.	Appropriation.	Credit Transfers.	Debit Transfers.	Total Amount Available.	Expended.	Unexpended Balance.
Dwight street underpass,	\$27,142.55	.....	.....	\$27,142.55	.....	\$27,142.55
Dwight street widening,	800,000.00	.....	.....	800,000.00	\$711,416.77	88,583.23
Dwight and Willow streets extension,	1,036.87	.....	\$1,036.87	.....	.....	.....
Fulton street widening,	21,263.73	.....	.....	21,263.73	329.53	20,934.20
Water street widening,	4,080.32	.....	.....	25,668.54	25,668.54	.....
Water street underpass,	48,747.31	\$21,588.22	.....	48,747.31	30.00	48,717.31
Wayfarers' lodge,.....	2,681.75	2,625.00	.....	5,306.75	4,152.76	1,153.99
	\$904,952.53	\$24,213.22	\$1,036.87	\$928,128.88	\$741,597.60	\$186,531.28

CLASSIFICATION OF EXPENSE.

Cost of Work Performed.													
Labor, Material, Equipment, and Other Charges.													
	Labor.	Hired Equip- ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip- ment.	Depreci- ation of Equip- ment.	Total Cost.	Total Work Units.	Unit Cost.
SEWERS.													
CONSTRUCTION.													
CITY COST.													
Vitrified clay pipe.....	\$8,572.67	\$480.40	\$7,083.86	\$1,787.12	\$2,609.87	\$10.25	\$227.58	\$53.30	.....	\$403.88	\$21,228.93	.....	.....
Concrete.....	7,805.02	117.30	2,628.50	1,422	2,688.94	.64	822.85	1.00	\$17.00	363.60	14,459.07	.....	.....
Segment block.....	2,603.28	98.15	863.94	1,833.82	841.38	.28	82.03	.....	.....	140.23	6,483.71	.....	.....
Wellholes.....	602.55	127.17	1,269.90	.....	180.76	5.34	35.00	.....	.....	26.08	2,246.80	.....	.....
Manholes.....	981.08	198.10	1,782.28	.....	314.36	8.27	116.10	2.05	.....	41.76	3,389.00	.....	.....
Flush gates.....	.....	.....	.....	271.57	.....	.....	.....	.....	.....	.....	271.57	.....	.....
Total cost.....	\$20,565.20	\$1,021.12	\$13,578.58	\$3,911.73	\$6,635.21	\$19.78	\$1,283.56	\$56.35	\$17.00	\$975.55	\$48,064.08	.....	.....
MAINTENANCE, RE-PAIRING.													
CITY COST.													
Vitrified clay pipe.....	\$151.87	\$5.95	\$32.12	.....	\$51.86	\$5.76	\$21.70	\$0.50	.....	\$7.13	\$276.89	.....	.....
Brick.....	104.72	6.38	25.31	.....	31.84	6.01	15.35	.....	.....	5.10	194.74	.....	.....
Manholes.....	212.43	60.07	427.04	.....	67.01	2.42	13.60	.35	.....	9.09	792.01	.....	.....
Wellholes.....	1,372.29	456.95	2,039.44	.....	389.60	20.81	76.45	6.65	.....	58.12	4,420.34	.....	.....
Flush gates.....	.....	.....	.....	\$227.80	.....	.....	.....	.....	.....	.....	227.80	.....	.....
Total cost.....	\$1,841.31	\$529.35	\$2,523.91	\$227.80	\$540.31	\$35.06	\$127.10	\$7.50	.....	\$79.44	\$5,911.78	.....	.....
MAINTENANCE.													
ASSESSABLE COST.													
Wellholes.....	\$3.56	.....	.....	.....	\$1.20	\$0.32	.....	.....	.....	\$0.20	\$5.28	.....	.....
Private drains, construc- tion.....	1,168.67	\$57.49	\$543.67	\$13.28	374.64	21.87	\$91.40	\$7.85	.....	59.01	2,342.88	.....	.....
Repairing and relaying, Construction to curb or special work.....	324.37	18.73	100.21	1.49	104.21	7.96	25.50	8.20	.....	16.43	607.10	.....	.....
Cleaning private drains, Cleaning wellholes.....	165.44	4.25	74.13	.....	51.93	.28	7.00	1.00	.....	7.87	311.90	.....	.....
.....	96.01	6.10	3.00	.....	30.90	4.69	21.55	.50	.....	4.68	167.43	.....	.....
.....	8.00	.....	.....	.....	2.70	.....	2.40	.....	.....	.36	13.46	.....	.....
Total cost.....	\$1,766.05	\$86.57	\$721.01	\$19.77	\$565.58	\$35.12	\$147.85	\$17.55	.....	\$88.55	\$3,448.05	.....	.....

CLASSIFICATION OF EXPENSE.—Continued.

Cost of Work Performed.													
	Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
	Labor.	Hired Equip-ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip-ment.	Depreci-ation of Equip-ment.	Total Cost.		
SEWERS.—Continued.													
MAINTENANCE, FLUSHING.													
Total cost,.....	\$2,316.29	\$39.48	\$7.09	.....	\$727.42	\$1,410.64	\$132.60	.....	.....	\$112.64	\$4,746.16	.....	
MAINTENANCE, CLEANING.													
Vitrified clay pipe,.....	\$1,151.93	\$414.00	\$2.50	.....	\$944.19	\$0.30	\$16.55	.....	.....	\$54.39	\$1,985.86	.....	
Concrete,.....	183.40	83.75	.74	.....	60.16	.....	.....	.....	.....	8.36	256.41	.....	
Brick,.....	1,983.01	399.52	2.11	.....	603.36	.....	.60	.....	.....	100.59	3,074.19	.....	
Outlets,.....	175.89	.85	.....	\$0.22	59.75	1.75	19.60	.....	.....	8.01	266.07	.....	
Inlets,.....	5.56	.....	.....	.....	2.38	.....	.....	.....	.....	.28	8.22	.....	
Total cost,.....	\$3,464.79	\$848.12	\$5.35	\$0.22	\$1,059.84	\$2.05	\$36.75	.....	.....	\$173.63	\$5,590.75	.....	
MAINTENANCE.													
Miscellaneous,.....	\$1,216.83	\$345.95	\$49.11	\$43.02	\$385.78	\$34.67	\$22.70	.....	.....	\$62.43	\$2,160.54	.....	
Sewer survey,.....	2,037.59	.....	14.42	.....	624.26	.....	.....	.....	.....	35.31	2,661.53	.....	
Total cost,.....	\$3,254.42	\$345.95	\$63.53	\$43.02	\$910.04	\$34.67	\$22.70	.....	.....	\$147.79	\$4,822.12	.....	
Grand total, Sewers,...	\$33,208.06	\$2,870.59	\$16,899.47	\$4,202.54	\$10,438.40	\$1,537.32	\$1,750.56	\$51.40	\$17.00	\$1,577.60	\$73,582.94	.....	
GARBAGE DISPOSAL.													
Garbage collection,.....	\$24,202.02	\$24.00	.....	\$1,423.75	\$3,754.65	\$14,701.28	\$3.00	.....	.....	\$1,273.55	\$45,382.25	lbs.	
Garbage disposal,.....	154.66	.....	.....	.....	25.63	.....	18.80	.....	.....	8.59	297.63	.....	
Total cost,.....	\$24,356.68	\$24.00	.....	\$1,423.75	\$3,780.28	\$14,701.28	\$21.80	.....	.....	\$1,282.14	\$45,589.93	.....	
												\$0.0022	
													
													

CLASSIFICATION OF EXPENSE.—Continued.

Cost of Work Performed.													
	Labor, Material, Equipment, and Other Charges.												
	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equip- ment.	Total Cost.	Total Work Units.	Unit Cost.
ASHES AND REFUSE DISPOSAL.													
Ashea.....	\$61,939.14	\$12,453.52	.....	\$2,807.38	\$9,239.93	\$12,309.92	\$6.90	.....	.....	\$3,301.04	\$102,057.83	lbs.	\$2.988
Ashea assembla.....	423.24	.....	.....	.....	62.68	.....	.....	.....	.....	25.07	510.99	.....	5.38
Refuse.....	22,830.83	141.90	.....	579.80	3,703.61	5,321.14	.....	.....	.....	1,226.70	33,803.98	.....	.....
Refuse assembla.....	74.10	22.10	.....	.....	12.07	.....	.....	.....	.....	3.58	111.85	.....	.....
Total cost.....	\$85,267.31	\$12,617.52	.....	\$3,387.18	\$13,018.29	\$17,631.06	\$6.90	.....	.....	\$4,556.39	\$136,484.65	.....	.....
Grand total, Ashes, Refuse and Garbage Disposal.....	\$109,623.99	\$12,641.52	.....	\$4,810.93	\$16,798.97	\$32,332.34	\$28.70	.....	.....	\$5,838.53	\$182,074.58	.....	.....
HIGHWAYS.													
CONSTRUCTION.													
City Cost.													
Water-bound macadam.....	\$4,949.33	\$6,110.58	\$9,644.86	\$508.70	\$1,671.98	\$227.45	\$832.63	\$573.80	\$22.50	\$231.61	\$24,773.44	.....	.....
Bituminous macadam.....	8,315.59	7,908.80	16,907.09	1.10	2,654.24	2,69.28	1,407.48	912.30	321.85	392.42	39,090.15	.....	.....
Brick.....	1,402.21	467.75	1,057.29	.62	401.10	14.40	19.20	15.60	37.00	66.85	3,482.02	.....	.....
Granite block.....	1,273.31	620.50	2,240.39	2.30	372.84	58.00	32.00	33.00	29.00	62.14	4,723.48	.....	.....
Gravel.....	228.38	701.67	1.80	.....	72.04	.....	.....	4.00	.....	11.54	1,019.43	.....	.....
Asphalt.....	2,148.99	670.98	9,500.56	.....	626.34	.....	12.00	294.25	1.20	107.10	13,361.42	.....	.....
Fences.....	204.97	28.92	131.66	8.50	60.48	.....	8.00	.....	.....	10.08	452.61	.....	.....
Mixed concrete.....	14.33	.....	.....	.....	5.12	.....	.....	.....	.....	.64	20.09	.....	.....
Wood blocks.....	1,334.40	257.17	722.15	2,383.55	381.66	12.32	44.75	40.00	36.30	63.61	5,275.91	.....	.....
Total cost.....	\$19,871.51	\$16,766.37	\$40,205.80	\$2,904.77	\$6,245.80	\$581.45	\$2,356.06	\$1,872.95	\$447.85	\$945.99	\$92,198.55	.....	.....

CLASSIFICATION OF EXPENSE.—Continued.

	Cost of Work Performed.										Total Work Unit.	Unit Cost.
	Labor.	Hired Equip-ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip-ment.	Depreci-ation of Equip-ment.	Total Cost.	
HIGHWAYS.—Continued.												
MAINTENANCE.												
City Cost.												
Water-bound macadam,...	\$5,437.18	\$4,130.35	\$6,680.39	\$22.20	\$1,713.12	\$58.88	\$54.00	\$1,044.15	...	\$253.72	\$19,408.99	.....
Bituminous macadam,...	4,937.61	2,844.20	6,705.23	30	1,615.20	159.55	290.90	545.45	\$1.20	246.40	17,247.04	.....
Bituminous concrete,...	7,118.70	1,919.49	24,867.52	28.84	2,171.14	119.08	179.50	994.00	3.10	331.60	37,732.97	.....
Wood block,...	536.41	262.77	891.41	10.31	163.85	12.90	.....	.....	.....	23.84	1,907.99	.....
Granite block,...	692.14	368.72	71.27	.....	212.48	.....	.....	.....	.....	34.03	1,368.64	.....
Brick,...	581.13	369.25	602.37	.....	184.96	3.08	1.10	62.50	.....	23.65	1,722.59	.....
Bitulith,...	121.74	15.70	83.38	.....	39.14	.....	.....	11.60	.....	5.67	252.23	.....
Gravel,...	6,568.20	4,531.05	6,886.83	73	2,112.66	8.96	314.55	180.00	11.70	397.22	21,252.90	.....
Fences,...	540.90	180.63	169.06	44.08	124.44	.....	2.40	.....	.....	23.51	1,198.14	.....
Asphalt,...	545.62	98.29	445.11	.....	124.44	.....	.....	53.05	1.00	28.00	1,284.26	.....
Miscellaneous,...	292.55	268.40	32.86	273.80	189.85	.....	443.55	.....	11.85	28.00	1,697.71	.....
Mixed concrete,...	498.05	268.40	32.86	391.76	153.67	.....	83.40	4.00	41.00	20.53	692.47	.....
Street signs,...	343.17	307.27	707.07	.....	108.50	2.56	11.00	37.50	.....	20.53	1,422.59	.....
Glutin-bound,...	.....	.....	.....	.....	.....	.....	.....	.....	.....	17.25	1,529.82	.....
Total cost,.....	\$28,776.94	\$15,572.49	\$48,332.83	\$772.02	\$3,984.27	\$364.91	\$1,980.50	\$2,932.25	\$69.85	\$1,403.28	\$108,590.74	.....
MAINTENANCE.												
Assessable Cost.												
Water-bound macadam,...	\$259.61	\$155.97	\$147.21	.....	\$75.68	\$7.68	\$18.00	\$45.30	.....	\$12.07	\$725.52	.....
Water-bound macadam be-tween tracks,...	916.19	934.30	2,272.53	.....	297.76	23.04	190.38	151.00	.....	42.12	4,887.32	.....
Bituminous macadam,...	362.08	646.95	1,534.53	.....	255.24	13.20	74.10	130.50	.....	40.84	3,657.59	.....
Bituminous concrete,...	882.21	171.50	1,855.49	.....	257.14	.....	.....	139.20	\$0.10	41.59	3,347.23	.....
Bituminous concrete be-tween tracks,...	85.49	8.45	114.67	.....	24.96	.....	.....	7.75	.....	4.16	245.48	.....
Wood block,...	274.81	145.59	531.64	.....	83.44	.....	.....	.....	.....	13.86	1,053.84	.....
Wood block between tracks,.....	435.76	118.72	1,433.53	.....	164.90	4.48	.....	.....	.....	24.14	2,231.53	.....

CLASSIFICATION OF EXPENSE.—Continued.

Cost of Work Performed.													
	Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
	Labor.	Hired Equip- ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip- ment.	Deprecia- tion of Equip- ment.	Total Cost.		
HIGHWAYS.—Continued.													
Granite block, ... between trucks, ...	\$920.77	\$259.91	\$392.65	\$32.50	\$289.43	.....	.....	.....	.....	\$48.16	\$2,443.42	.....	
Brick, ...	13.24	8.93	7.17	.....	3.78	.....	.....	.....	.....	.63	33.75	.....	
Bitulthle, ...	342.08	126.87	204.98	.....	99.90	.....	\$1.80	.....	.....	16.51	792.14	.....	
Hassan, ...	68.64	2.57	40.32	.....	23.63	.....	.....	\$12.10	.....	3.11	150.37	.....	
Fences, ...	421.27	297.49	680.02	.....	139.51	.....	90.75	.....	.....	19.93	1,648.97	.....	
Asphalt, ...	15.14	.....	.....	.....	4.29	.....	.....	.....	.....	.78	21.21	.....	
.....	190.89	27.51	102.75	.....	59.68	\$0.64	.....	23.90	\$0.20	9.11	414.68	.....	
Total cost,.....	\$5,739.18	\$2,954.76	\$9,867.54	\$32.50	\$1,783.34	\$49.04	\$375.03	\$519.75	\$0.30	\$276.61	\$21,603.05	.....	
Grand total, Highways,.....	\$54,387.03	\$35,293.62	\$98,406.17	\$3,709.29	\$17,018.41	\$995.40	\$4,111.59	\$5,324.95	\$518.00	\$2,627.88	\$222,392.34	.....	
BRIDGES.													
CONSTRUCTION.													
*Page boulevard,.....	\$959.27	.....	\$22.63	\$120.17	\$332.61	.....	\$33.95	.....	\$11.25	\$48.70	\$1,578.58	.....	
Total cost,.....	\$959.27	.....	\$22.63	\$120.17	\$332.61	.....	\$33.95	.....	\$11.25	\$48.70	\$1,578.58	.....	
MAINTENANCE.													
CITY COST.													
Abbe Avenue Bridge.	\$564.85	.....	\$168.77	\$1,673.83	\$155.53	.....	\$145.80	.....	.....	\$25.93	\$2,739.76	.....	
Roadway,.....	141.12	.....	4.05	.....	37.68	.....	14.10	.....	.....	6.23	203.23	.....	
Sidewalks and railings,.....	1,076.63	.....	65.19	18.40	316.88	.....	25.60	.....	.....	52.78	1,555.28	.....	
Steel work,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

CLASSIFICATION OF EXPENSE.—Continued.

BRIDGES.—Continued.	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.												
	Labor.	Hired Equip-ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip-ment.	Depreci-ation of Equip-ment.	Total Cost.	Total Work Units.	Unit Cost.
Armory Street (B. & A.). Roadway.....	\$34.04	.....	\$24.91	† \$3.44	\$10.07	.....	\$5.40	.....	.....	\$1.57	\$72.55	.....	.....
Armory Street (N. Y., N. H. & H. R. R.). Roadway.....	6.10	\$3.00	.90	.....	1.40	.....	.....	.....	.....	.28	11.68	.....	.....
Ludlow Bridge. Roadway.....	13.85	3.40	4.58	.....	5.01	.....	3.50	.....	.....	.61	31.05	.....	.....
Main Street Bridge, I. O. Roadway.....	143.11	11.60	10.87	324.88	39.06	.....	68.90	.....	.....	6.51	604.93	.....	.....
North End Bridge. Approach.....	23.82	.....	18.89	.....	6.72	.....	6.00	.....	.....	1.12	56.55	.....	.....
Cleaning.....	40.20	4.42	12.70	.....	12.70	\$1.39	.....	.....	.....	2.16	60.87	.....	.....
Roadway.....	4,275.71	401.18	1,775.82	17,702.40	1,233.75	.....	654.70	.....	.....	207.62	26,251.18	.....	.....
Sidewalks and railings, Old Toll Bridge. Cleaning.....	877.04	38.25	99.00	388.21	354.14	.....	183.45	.....	.....	39.42	1,979.51	.....	.....
Cleaning.....	18.23	7.50	.....	.....	5.15	.....	1.50	.....	.....	1.02	33.40	.....	.....
Roadway.....	570.27	11.04	209.00	222.66	145.69	.....	57.70	.....	.....	25.43	1,241.79	.....	.....
Sidewalks and railings, Watching.....	3,103.22	.....	38.49	1.00	1,180.57	.....	.....	.....	.....	196.30	4,519.58	.....	.....
House Crossing Red Bridge. Roadway.....	88.87	14.87	112.19	.....	25.82	.....	10.80	.....	.....	4.22	256.27	.....	.....
South End Bridge. Roadway.....	1,576.12	14.10	246.79	494.30	428.04	.....	225.80	.....	.....	70.80	3,085.95	.....	.....
Watching.....	.....	.....	.....	201.45	.....	.....	.....	.....	.....	.....	201.45	.....	.....
Sundry Bridges. Roadway.....	40.18	.....	5.27	18.00	16.47	.....	10.80	.....	.....	1.83	92.55	.....	.....
Sidewalks and railings, ...	18.34	.....	.....	.84	6.52	.....	.....	.....	.....	.76	26.46	.....	.....
Total cost,.....	\$12,611.70	\$509.86	\$2,784.72	\$21,052.73	\$3,980.55	\$1.39	\$1,414.15	.....	.....	\$644.64	\$42,999.24	.....	.....

CLASSIFICATION OF EXPENSE.—Continued.

Cost of Work Performed.										
Labor, Material, Equipment, and Other Charges.										
Labor.	Hired Equip- ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip- ment.	Deprecia- tion of Equip- ment.	Total Cost.
Unit Cost.	Total Work Units.									
BRIDGES.—Continued.										
MAINTENANCE.										
ASSESSABLE COST.										
Abbe Avenue Bridge.										
Approach.....	\$36.94	\$5.94	.....	\$9.90	.....	\$5.50	.....	.....	\$1.65	\$59.93
Ladlow Bridge.										
Roadway.....	3.72	.....	.....	3.42	.....	.....	.....	.....	.88	12.52
North End Bridge.										
Roadway.....	221.26	232.50	\$1.70	53.63	.....	9.90	.....	.....	10.45	529.49
Total cost,.....	\$366.92	\$238.44	\$1.70	\$97.00	.....	\$15.40	.....	.....	\$12.43	\$601.94
Grand total, Bridges.	\$18,837.89	\$3,045.79	\$21,174.60	\$4,380.16	\$1.89	\$1,513.50	.....	\$11.25	\$705.82	\$45,179.76
SIDEWALKS AND CURBING.										
CONSTRUCTION.										
CITY COST.										
Concrete walks.....	\$17.60	\$11.39	.....	\$6.97	.....	.....	.....	.....	\$0.82	\$40.18
Brick walks.....	330.73	326.44	.....	129.20	.....	.....	.....	.....	15.20	\$40.97
Crosswalks.....	33.11	40.97	.....	13.09	.....	.....	.....	.....	1.54	88.06
Granite curb.....	5,362.83	134.06	.....	2,250.35	\$59.64	\$166.60	.....	.....	269.23	9,832.20
Total cost,.....	\$5,734.32	\$512.86	.....	\$2,399.61	\$59.64	\$156.60	.....	.....	\$286.79	\$10,911.41
CONSTRUCTION.										
ASSESSABLE COST.										
Concrete walks.....	\$1,616.16	\$1,233.99	.....	\$455.26	.....	\$22.63	.....	\$97.72	\$79.02	\$4,151.76
Brick walks.....	98.51	15.80	.....	80.58	.....	.....	.....	.....	4.70	171.91
Granite curb.....	928.07	9,641.85	\$7.95	379.60	.....	77.10	.....	.....	45.43	12,407.00
Total cost,.....	\$2,637.74	\$10,908.64	\$7.95	\$945.51	.....	\$99.73	.....	\$97.72	\$129.15	\$16,730.67

CLASSIFICATION OF EXPENSE.—Continued.

Cost of Work Performed.														
Labor, Material, Equipment, and Other Charges.														
	Labor.	Hired Equip- ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip- ment.	Deprecia- tion of Equip- ment.	Total Cost.	Total Work Units.	Unit Cost.	
SIDEWALKS AND CURBING.—Continued.														
	MAINTENANCE.													
	CITY COST.													
	Concrete walks.....	\$259.04	\$191.70	\$86.68		\$89.37	\$2.24			\$1.28	\$11.99	\$642.30		
	Brick walks.....	1,336.20	1,070.10	402.57		449.98	175.26	\$24.40			64.93	3,523.39		
	Granite curb.....	407.66	1,222.55	27.83		142.84	1.28	4.50			19.62	726.28		
MAINTENANCE.														
	Concrete curb.....	10.56	6.80	3.82	.....	3.84	.....	.....	.....	.48	25.50	.....	.....	
	Crosswalks.....	75.26	41.05	68.07	.....	25.18	.....	.....	.....	3.55	213.11	.....	.....	
	Tree belts.....	18.46	15.50	4.81	.....	4.81	.....	.....	.....	.74	35.51	.....	.....	
	Miscellaneous.....	136.23	47.60	104.85	.....	53.04	.....	.....	.....	6.24	347.96	.....	.....	
	Total cost.....	\$2,238.41	\$1,496.30	\$693.82		\$769.01	\$178.78	\$28.90		\$1.28	\$107.55	\$5,514.05		
MAINTENANCE.														
	ASSEMBLY COST.													
	Brick walks.....	\$4.55	\$1.70	\$0.60	.....	\$1.50	.....	.....	.....	\$0.20	\$8.55	.....	.....	
	Concrete walks.....	2.52	1.70	2.68	.....	.78	.....	.....	.....	.12	7.80	.....	.....	
	Concrete curbing.....	32.63	17.00	6.27	.....	11.63	.....	.....	.....	1.46	69.04	.....	.....	
	Driveways.....	164.80	78.32	229.18		56.11					7.88	537.29		
MAINTENANCE.														
	Total cost.....	\$204.50	\$99.72	\$238.73	.....	\$70.07	.....	.....	.....	\$9.66	\$622.68	.....	.....	
MAINTENANCE.														
	Grand total, Sidewalks and Curbing.....	\$10,814.97	\$5,246.84	\$12,349.05	\$7.95	\$4,204.20	\$238.42	\$285.23	\$99.00	\$533.15	\$33,778.81	.....	.....	
LIGHTING STREETS.														
	Lighting streets and bridges.....	.....	.....	.....	\$137,671.33	\$3,226.44	.....	.....	.....	.....	\$140,897.77	.....	.....	
	Total cost.....	.....	.....	.....	\$137,671.33	\$3,226.44	.....	.....	.....	.....	\$140,897.77	.....	.....	

CLASSIFICATION OF EXPENSE.—Continued.

	Cost of Work Performed.											Total Work Units	Unit Cost.
	Labor, Material, Equipment, and Other Charges.												
	Labor.	Hired Equip- ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip- ment.	Depreci- ation of Equip- ment.	Total Cost.		
OILING STREETS.													
Oil.....	\$360.07		\$12,058.79		\$177.35		\$998.35			\$17.08	\$13,011.64	sq. yds.	
Oil and sand.....	1,688.44	\$1,130.72	6,717.48		680.69	\$51.65	310.25			94.70	10,623.98	261,114	
Total cost.....	\$2,048.51	\$1,130.72	\$18,776.27		\$858.04	\$51.65	\$708.60			\$111.78	\$23,635.57		
SPRINKLING STREETS.													
City cost.....	\$2,401.49	\$3,205.08	\$1.05	\$4,945.88	\$1,480.93		\$2,384.90			\$128.14	\$14,542.47		
Total cost.....	\$2,401.49	\$3,205.08	\$1.05	\$4,945.88	\$1,480.93		\$2,384.90			\$128.14	\$14,542.47		
OUTSIDE COSTS.													
Coal distribution.....	\$3,355.59	\$115.13	\$6.90	\$43.28	\$988.87	\$6.65	\$953.80			\$171.70	\$5,546.92		
Forestry work.....	1,076.92	96.71		1.72	529.02		57.60			40.94	1,802.91		
Maintenance of Building													
Department cars.....	302.64		564.40	65.30	21.63						953.97		
Material sold.....	.76	5.10	1,369.39		.22					.04	1,376.71		
Rent of equipment.....	568.59		2.40		163.36		1,362.70	\$7.80	\$401.70	27.38	2,533.93		
Snow removal, City													
Property.....	2,098.62	188.66	4.11		297.61	114.81	60.60			119.04	2,878.35		
Water distribution.....	875.44	564.98	3.20		128.34	94.15				21.39	1,577.50		
Miscellaneous.....	112.61	20.25	15.37	2.25	23.07		49.80			5.61	228.76		
Total cost.....	\$7,895.97	\$980.83	\$1,965.77	\$112.55	\$2,152.12	\$215.61	\$2,390.70	\$7.80	\$401.70	\$386.00	\$16,499.05		
CHARGEABLE TO CAPITAL ACCOUNTS.													
Dwight street widening.....	\$32,804.31	\$3,142.70	\$18,711.69	\$39,939.69	\$11,065.95	\$320.32	\$1,733.30	\$622.65	\$996.85	\$1,587.84	\$115,425.20		
Old Toll bridge.....	1,709.55	185.30	693.36	7,402.23	634.45	.32	324.15		64.00	76.19	11,140.05		
Water street widening.....	1,847.01	1,377.85	4,623.26	18.90	666.82	1.60	67.90	182.00	62.40	83.48	8,531.22		
Wayfarers' Lodge.....	186.20		54.33	3,403.73	52.58					9.56	3,706.40		
Total cost.....	\$36,047.07	\$9,705.85	\$23,683.04	\$50,764.55	\$12,469.80	\$322.24	\$2,125.35	\$804.65	\$1,123.25	\$1,757.07	\$138,802.87		

CLASSIFICATION OF EXPENSE.—Continued.

Cost of Work Performed.										
	Labor, Material, Equipment, and Other Charges.									
	Labor.	Hired Equip-ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip-ment.	Deprecia-tion of Equip-ment.
STREET CLEANING.										
Patrol.....	\$38,651.22	\$1,950.50	\$3.53	.....	\$6,058.21	\$116.71	\$1,881.45	.....	.....	\$2,118.64
Macadam.....	17,827.59	5,116.56	.....	.....	2,845.06	1,494.61	.....	.....	.....	966.91
Wellholes.....	1,714.90	725.73	.....	.....	260.34	66.24	100.05	.....	.....	90.27
Gravel.....	868.91	461.63	.55	.....	129.58	.....	.....	.....	.....	44.06
Machines.....	1,406.94	3,642.65	.....	.....	202.30	5.40	.....	.....	.....	30.89
Crosswalks.....	4,519.23	33.74	.....	.....	678.77	.....	.....	.....	.....	271.47
Gutters.....	841.93	120.50	.....	.....	49.00	5.60	.....	.....	.....	19.04
Catch basins.....	675.97	362.98	4.49	.....	96.57	16.40	6.60	.....	.....	34.27
Leaves.....	269.55	194.21	.....	.....	44.38	.....	.....	.....	.....	12.68
Total cost.....	\$66,276.24	\$12,612.55	\$13.57	.....	\$10,344.21	\$1,704.96	\$1,985.10	.....	.....	\$3,628.23
Sanding.....	\$469.15	\$422.54	\$40.24	.....	\$63.68	\$11.14	\$11.20	.....	.....	\$25.02
Removal of snow and ice.....	8,696.64	6,789.71	71.55	.....	1,251.55	410.72	155.40	.....	.....	500.62
Total cost.....	\$9,155.79	\$7,212.25	\$111.39	.....	\$1,315.23	\$421.86	\$164.60	.....	.....	\$625.64
ASSEMBLY COURT.										
Removal of snow and ice.....	\$38.35	.....	.....	.....	\$5.24	\$3.33	\$0.60	.....	.....	\$2.10
Total cost.....	\$38.35	.....	.....	.....	\$5.24	\$3.33	\$0.60	.....	.....	\$2.10
Grand total, Street Cleaning.....	\$75,480.38	\$19,824.80	\$125.46	.....	\$11,664.63	\$2,130.15	\$2,155.30	.....	.....	\$4,155.97
STABLES AND YARDS.										
Improvements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Building hay bolt, South end.....	\$73.86	.....	\$0.60	.....	.....	.....	.....	.....	.....	\$3.72
Acquisition of Mart plant.....	364.45	.....	53.95	\$0.80	.....	.....	\$23.70	.....	.....	16.53
Erection of scales, South end.....	232.96	\$37.87	16.29	52.70	.....	.....	1.20	.....	.....	12.83
Total cost.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand total, Stables and Yards.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$78.18
Total cost.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$41.48
Grand total.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$83.85

Cost of Work Performed.											
Labor, Material, Equipment, and Other Charges.											
Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.
\$253.39		\$17.13	\$204.88						\$12.08	\$487.48	
Construction of wagon shed, South end, ...											
Building locker, Summer street, ...	9.21	10.40							42	20.03	
Cleaning North end dump, ...	\$361.67								18.16	636.50	
Repairs to trestle, Summer street, ...	23.50	236.54	174.62			\$63.60			19.08	910.83	
Construction of platform, Summer street, ...	45.56	.81	64.22			10.40			1.99	122.98	
Painting machine shop, ...	91.58		1.40			21.60			4.20	118.78	
Extending wash stand, Summer street, ...	50.37	94.55							2.52	147.44	
Construction of wire cage, Summer street, ...	30.10	3.32				12.00			1.27	46.69	
Making cement floor, Emery street, ...	283.25	71.23	6.09						12.59	384.21	
Remodeling building at Emery street, ...	12.43					7.80			.39	20.62	
Construction of garage door, Summer street, ...	234.13	66.39	32.22			26.40			10.40	369.54	
Rebuilding shed, South end, ...	893.48	189.45	53.54			64.80			17.39	718.66	
Repairing pavement, Summer street, ...	296.71	15.00							13.96	362.22	
Total cost, ...	\$3,021.64	\$775.66	\$590.47			\$233.50			\$142.58	\$5,239.49	
Assessors' Cost.											
Unloading defective car, ...	\$10.70								\$0.49	\$14.17	
Total cost, ...	\$10.70								\$0.49	\$14.17	
Grand total, Stables and Yards, ...	\$3,032.34	\$775.66	\$590.47			\$233.50			\$143.07	\$5,253.66	

CLASSIFICATION OF EXPENSE.—Concluded.

Cost of Work Performed.

	Labor, Material, Equipment, and Other Charges.										Total Work Units.	Unit Cost.
	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	
ADMINISTRATIVE AUTOMOBILES.												
Mayor's auto,.....	\$1,248.15	.....	\$631.80	\$215.77	\$54.35	.....	.....	.....	.....	.....	\$2,150.07	.....
Municipal auto,.....	568.22	.....	536.16	166.16	15.89	.....	\$0.60	.....	.....	.....	1,287.03	.....
Total cost,.....	\$1,816.37	.....	\$1,167.96	\$381.93	\$70.24	.....	\$0.60	.....	.....	.....	\$3,437.10	.....
SERVICES RENDERED.												
NOT CHARGEABLE TO DEPARTMENTAL COSTS.												
Lines and grades, sidewalks and curbs,.....	\$408.46	.....	\$13.55	.....	\$26.33	.....	.....	.....	.....	.....	\$448.34	.....
Surveys, etc., for Assessment,.....	577.08	.....	.90	.....	26.50	.....	.....	.....	.....	.....	604.48	.....
Surveys, etc., for Board of Public Works,.....	1,426.90	.....	16.55	\$3.60	64.65	.....	.....	.....	.....	.....	1,511.70	.....
Surveys, etc., for Park Department,.....	5.46	.....	.....	.....	.55	.....	.....	.....	.....	.....	6.01	.....
Inspection of street permits,.....	639.12	.....	.....	30.00	60.46	.....	.....	.....	.....	.....	729.58	.....
Surveys, etc., for Law Department,.....	150.55	.....	6.22	.....	10.65	.....	\$2.40	.....	.....	.....	169.82	.....
Miscellaneous work for other departments,.....	1,495.61	.....	22.50	.....	104.08	.....	.....	.....	.....	.....	1,622.19	.....
Engineering for City Property Committee,.....	17.93	.....	.90	.....	1.79	.....	.....	.....	.....	.....	20.62	.....
Topographical survey,.....	4,047.32	.....	53.96	19.70	215.95	.....	.....	.....	.....	.....	4,336.93	.....
Constable work,.....	323.44	.....	6.77	.....	22.00	.....	.....	.....	.....	.....	352.21	.....
Miscellaneous war work,.....	166.37	.....	3.71	72.92	10.52	.....	95.70	.....	.....	.....	349.22	.....
Total cost,.....	\$9,258.24	.....	\$125.06	\$126.22	\$543.48	.....	\$98.10	.....	.....	.....	\$10,151.10	.....
SHOPS.												
Repairing drinking fountains,.....	\$1.94	.....	.....	.....	\$0.19	.....	.....	.....	.....	\$0.08	\$2.21	.....
Total cost,.....	\$1.94	.....	.....	.....	\$0.19	.....	.....	.....	.....	\$0.08	\$2.21	.....

* Completion of 1917 work.

† Credit.

RECAPITULATION OF COST OF WORK PERFORMED.

LABOR, MATERIAL, EQUIPMENT, AND OTHER CHARGES.

	Labor.	Hired Equip- ment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equip- ment.	Depre- ciation of Equip- ment.	Total Cost.
Sewers.....	\$38,208.06	\$2,870.59	\$16,899.47	\$4,202.54	\$10,438.40	\$1,537.82	\$1,750.56	\$81.40	\$17.00	\$1,577.60	\$72,582.94
Cuttings.....	24,365.68	24.00	.....	1,423.75	8,730.28	17,701.28	21.80	.....	.....	1,283.14	45,589.98
Arises and refuse.....	35,287.91	12,617.52	.....	3,387.18	13,013.29	17,631.08	6.90	.....	.....	4,556.39	136,484.65
Highways.....	64,337.03	35,233.62	98,406.17	3,709.29	17,018.41	995.40	4,111.59	5,324.95	518.00	2,637.88	222,392.84
Buildings.....	13,837.89	509.36	3,045.79	21,174.60	4,380.16	1.89	1,513.50	.....	11.25	708.82	45,179.76
Sidewalks and curbing.....	10,814.97	5,246.84	12,349.05	7.95	4,204.20	238.42	235.23	.....	98.00	538.15	33,778.81
Sprinkling streets.....	2,401.49	3,205.08	1.08	4,945.88	1,480.93	.....	2,394.90	.....	.....	123.14	14,542.47
Oiling.....	2,048.51	1,130.72	18,776.27	.....	808.04	51.65	708.60	.....	.....	111.78	23,635.57
Street cleaning.....	75,480.38	19,824.80	125.46	.....	11,664.68	2,130.15	2,155.30	.....	.....	4,155.97	115,636.77
Lighting.....	.....	.....	.....	137,671.33	3,226.44	.....	.....	.....	.....	.....	140,897.77
Shops.....	1.94	.....	.....	.....	.19	.....	.....	.....	.....	.08	2.21
Stables and yards.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Improvements.....	3,032.34	478.62	775.66	590.47	.....	.....	238.50	.....	.....	143.07	5,263.66
Services rendered other depart- ments.....	9,253.24	.....	125.08	126.22	543.48	.....	98.10	.....	.....	.....	10,151.10
Outside.....	7,885.97	980.83	1,965.77	112.55	2,152.12	215.61	2,390.70	7.80	401.70	386.00	16,499.06
Administrative autos.....	1,816.37	.....	1,167.96	381.93	70.24	.....	.60	.....	.....	.....	3,437.10
Services rendered chargeable to capital accounts	36,047.07	9,705.85	23,683.04	50,764.55	12,469.30	322.24	2,125.35	804.65	1,123.25	1,757.07	138,802.87
Grand total.....	\$359,844.25	\$91,887.83	\$177,320.75	\$228,498.24	\$36,255.66	\$37,324.52	\$17,786.68	\$6,218.80	\$2,170.20	\$17,960.09	\$1,024,766.97

REPORT
OF
ENGINEERING DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1918.

SPRINGFIELD, MASS., December 16, 1918.

To Robert P. Marsh, Superintendent of Streets and Engineering, City.

DEAR SIR:—We briefly summarize the general work of the Engineering Division in the following.

GENERAL.

The division has responded to all the varied and miscellaneous calls of the other departments, the work performed consisting in the main of the services for the divisions of Streets, Sidewalks, and Sewers.

The Board of Public Works has required the usual service in surveys, plans, and profiles, serving notices for hearings, estimates, and detailed studies. The steady and constant growth of the city serves to increase the duties and work done by the Board of Public Works to such an extent that the larger part of the time and service of the head of this division is required for the affairs of the Board. The securing of rights from individuals, the draughting of reports, and a large amount of other service requires considerable expenditure of time and study of details.

The Board of Public Works has given considerable study during the year to the expediency of establishing building lines as an aid to the future widening of some of our more important thoroughfares, that will by common consent demand greater width in the near future, in order to reasonably provide for the necessities of public travel. Having the above in view the Board has favorably reported to the City Council during the year upon the following petitions for building line establishment:—

Lyman street, Dwight street to Chestnut street.
Locust street, Main street to Mill street.
Carew street, Main street to Chestnut street.
Carew street, Chestnut street to near Massasoit street.

Chestnut street, Liberty street to Carew street.
Chestnut street, Carew street to Montmorenci street.
Liberty street, Armory street to Carew street, and from Chicopee road to Chicopee line.

Favorable action on these reports by the City Council will serve to hold in check future building operations until such time as the widening of these streets is effected, thereby saving a considerable outlay by the city in building damages.

The streets laid out as public ways during the year are shown in a table given in connection with this report, also a tabulation of streets altered by widening or changing of boundary lines.

In the matter of the acceptance of new streets it may be said that the practice has been followed, as heretofore, of taking over streets as laid out and offered by the real estate dealers of the city, although a study of the situation often reveals that these layouts are not always such as will best serve the common convenience and necessity.

The general proposition of adopting and putting into effect the provisions of chapter 190 of the acts of the Legislature for the year 1916 was more of less discussed at the time of the enactment and many of experience in such matters expressed the view that the new law, if adopted, would serve to remedy the undesirable features of the present method now in use in this city for the laying out of streets.

The establishment of a Board of Survey, as provided under the provisions of said chapter, would make possible the intelligent consideration of such street layouts at the proper period before time and expense have been involved in the construction of undesirable layouts, and give the public authorities the power to discard undesirable layouts and remedy such features as may be found opposed to the best interests of all concerned.

The time has arrived when a more intelligent method should be used than the hit or miss plan heretofore employed. A scheme of development that serves only the moneyed interests of the individual who has an isolated tract to be cut up into streets and lots in a way that will bring the largest returns is frequently opposed to the common convenience and reasonable necessity of the public, who will be inconvenienced for all future time.

BETTERMENTS.

The assessment of betterments upon lands especially benefited by reason of the laying out and construction of new streets or the alteration of

existing streets, has been considered and reported under the orders of the Mayor and Aldermen for the following streets:—

Wait street, Armory street to Penacook avenue.
Longview street, Leete street to Edgeland street.
Coomes street, Leete street to Edgeland street.
Crane street, Franklin street northerly.
Leonard street, Franklin street northerly.
Center street, Oak Grove avenue to Acorn street.
Dwight street widening, Lyman street to Sanford street, and laying out a new street from Sanford street to State street.

TOPOGRAPHICAL SURVEY.

The Topographical Survey of the city has been continued during the year but owing to the irregularity of service by reason of the demands of the war the usual progress has not been made. However, considerable area has been covered lying in the developed sections of the city, included in wards one and two, also four and six. Owing to scarcity of help no work has been done on this survey since August last.

OLD TOLL BRIDGE REPAIRS.

After several councils between the city and town authorities, the work of repairs and reconstruction decided upon for the Old Toll Bridge has steadily progressed during the fall season, the work being in charge of Assistant Engineer Harry M. Gray, Mr. J. P. Snow, of Boston, having been retained as consulting expert, under whose plans and general guidance the repairs and reconstruction are being carried out; and it is expected that this ancient structure, now closed to vehicle travel, will again be in condition for service early in the coming year.

The temporary closing of the old structure during the last summer season and the attending inconvenience has served to demonstrate the necessity for a new bridge over Connecticut River, so long under consideration, and which now seems to be in the way of final decision and preparation for construction.

LAW DEPARTMENT.

The usual service has been rendered for the Law Department, which includes plans and other evidence used for suits involving the city and the attendance at court.

The opportunity is taken to express appreciation of the courtesies extended and the faithful co-operation of assistants.

Respectfully submitted,

CHAS. M. SLOCUM,
Deputy City Engineer.

STREETS MADE PUBLIC, 1918.

BY ORDER OF THE CITY COUNCIL.

NAME.	LIMITS.	Length in Feet.	Width in Feet.	Date of City Council's Order.
Mansfield street,...	White street easterly to easterly line of Joseph street,.....	586.8	50	Feb. 4, 1918
Crossett lane,.....	Main to Willow street,...	311.0	17 to 28.5	April 8, 1918
Lakeside street,...	Wilbraham road to Hick- ory street,.....	1,137.9	60	Feb. 4, 1918
Euclid avenue ex- tension,.....	Present northerly ter- minus to Orange street,	273.28	50	Mar. 11, 1918
Glendell terrace,...	Euclid avenue easterly to Horace street,.....	395.7	60 to 171	Mar. 11, 1918
Lyons street, I. O.,	Main street southerly to South street,.....	1,083.0	60	Mar. 11, 1918
Newland street,...	Plainfield street westerly to Connecticut river,...	1,512.8	50	Mar. 11, 1918
Tafton road,.....	Dickinson street north- erly and southerly to point southerly of Maryland street,.....	2,112.66	50	May 20, 1918
Edgemont street,...	State street northerly to northerly end,.....	764.0	50	Nov. 11, 1918
Ionia street,.....	State street northerly to northerly end,.....	726.0	50	Nov. 11, 1918

STREET RELOCATED AND WIDENED, 1918.

BY ORDER OF THE CITY COUNCIL.

NAME.	LIMITS.	Length in feet.	Width in feet.	Date of City Council's Order.
Water street wi- dening,.....	Westerly side, northerly line of Elm street to northerly line Court Square extension play- ground,.....	532.00	80	May 20, 1918

REPORT
OF THE
STREET DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1918.

Mr. R. P. Marsh, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—It is my pleasant duty to submit for your approval the annual report of the Street Division for the fiscal year closing November 30, 1918.

It is somewhat with a feeling of pride that the department calls attention to the large amount of work that it has been able to perform, in view of the fact that never before in its history has it had to overcome such difficulties in performing its work as it has during the past season. The procuring of labor and material was even more of a problem than it had been during the preceding year and government restrictions even more numerous. However, with the same spirit as that of Springfield citizens the department has patriotically and willingly complied with all war time regulations and is still able to make a very favorable showing.

The expenditures in the Highway Division, including the capital fund accounts such as Dwight street widening and Water street widening, is only slightly less than that of last year. The big job in this division was the widening of Dwight street from Lyman to Sanford street, the construction of a new street from Sanford to State street, and the laying of over seventeen thousand square yards of wood block paving on the widened and new street. This division expended a little less than one hundred and twenty thousand dollars on this one job, which was about one third of its entire expenditure for the year.

A large amount of asphalt and tar purchased during 1917 at a very favorable figure, made it possible to do that bituminous concrete work that has been done during the past season.

The North End, South End, and the Old Toll bridges have demanded most of the attention which has been directed toward the Bridge Division

this season. Early in the year it became apparent that the condition of the Old Toll bridge was such as to make it imperative to close it at once to all vehicular traffic. An immediate investigation was made and surveys submitted by engineers engaged by the City of Springfield and the Town of West Springfield, and, in accordance with their suggestions and recommendations, it was decided to construct three new concrete piers and to make certain changes in the superstructure. This was undertaken this fall and the concrete piers were nearly completed at the close of the fiscal year.

The planking of the North End Bridge has been replaced by a hexagon wood block paving and all timbers have been replaced with creosoted lumber. The sidewalk on this bridge has also been replanked. The extremely heavy traffic using the South End Bridge made it necessary this season to strengthen this structure by placing additional timbers under the flooring.

The department has been unable to give the construction of new concrete sidewalks the attention that it demands because of the high price of material that now prevails. More favorable conditions ought to result in a large increase in sidewalk construction next year.

While government restrictions have made it extremely difficult to obtain road oil, the department, with what it has been able to procure, believes that it has taken better care of the dust situation than ever before. It draws this conclusion from the fact that it has had very little complaint from dust this season. At a slight increase in expense due to wage increases the cleaning of streets has proceeded in a very satisfactory manner.

The tables which follow will show detail costs and expense of the several functions of this division.

My appreciation is expressed to yourself and to those who have aided the division in its season's work.

Respectfully submitted,

A. H. WOODWARD,
Deputy Superintendent of Streets.

STREET CONSTRUCTION.
PAVING.

Street.	Limits.	Material.	Length in feet.	Area in sq yds.	Depre- ciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Armory street,...	Between N. Y., N. H. & H. and B. & A. bridges, ...	Brick, ...	194	714	\$66.85	\$401.10	\$3,482.02	\$4.88
*Dwight street,...	Spring to Byars, ...	Wood block, ...	2,340	17,846	1,567.42	10,734.37	115,392.60	6.47
Pearl street, ...	West street to Wa-	Granite block, ...	244	741	62.14	372.84	4,723.48	6.38
*Plainfield street, ..	son avenue, ...	Grit asphalt, ..	4,939	19,477	32.52	178.86	4,498.81	1.90
Totals, .....	.....	.....	.....	.....	\$1,728.93	\$11,687.17	\$128,096.91	....

*Denotes completion of 1917 work. Unit cost includes 1917 work.

TABLE OF PERMANENT PAVEMENTS.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Armory street,	Federal to Magasine,	Grit asphalt,	798	2,775	1916
Armory street,	Worthington to N. Y., N. H. & H. R. R.,	Granite blocks on concrete,	878	3,044	1914
Armory street,	N. Y., N. H. & H. R. R. to B. & A. R. R.,	Brick,	194	714	1918
Barnes street,		Bitulithic,	178	552	1909
Bay street,	Catharine to N. Y., N. H. & H. R. R.,	Grit asphalt,	1,295	4,778	1914
Belmont avenue,	At Locust and Mill streets,	Brick,	—	133	1912
Belmont avenue,	Mill street to Bellevue avenue,	Granite blocks on concrete,	1,702	4,507	1913
Belmont avenue,	Mill st. to Bellevue av., between rails,	Granite blocks on concrete,	—	2,260	1912
Belmont avenue,	Bellevue av. to Hall st., between rails,	Brick,	—	1,211	1901
Belmont avenue,	Hall to Oakland, between rails,	Brick,	—	914	1903
Bliss street,	Bellevue avenue to "X,"	Grit asphalt,	3,444	12,897	1914
Boston road,	Main to Water,	Bitulithic,	963	3,104	1914
Boston road,	Berkshire avenue, easterly, 1 mile,	Mixed concrete,	5,280	12,907	1915
Bradford street,	End of 1915 work to Wilbraham line,	Mixed concrete,	12,771	31,217	1916
Bridge street,	Main to Plainfield,	Wood blocks,	51	192	1915
Bridge street,	Chestnut to Davis alley,	Asphalt blocks,	195	712	1910
Bridge street,	Davis alley to Dwight,	Wood blocks,	102	373	1910
Bridge street,	Dwight to Barnes,	Sheet asphalt,	439	1,655	1915
Bridge street,	Barnes to Main,	Bitulithic,	251	870	1900
Bridge street,	Broadway to Water,	Bitulithic,	252	895	1911
Carew street,	Intersection of Chestnut,	Brick,	50	229	1914
Catharine street,	State to Bay,	Brick,	1,722	5,691	1900
Charter avenue,	Walnut to Oak street,	Mixed concrete,	629	1,084	1915
Chestnut street,	Pearl to Bridge,	Bitulithic,	201	952	1912
Chestnut street,	Linden to Everett,	Wood blocks,	419	1,438	1909
Chestnut street,	Everett to Carew,	Wood blocks,	359	1,245	1917
Chestnut street,	Carew to Allendale,	Brick,	1,015	3,432	1900
Chestnut street,	Allendale street to Jefferson avenue,	Wood blocks,	842	2,881	1916

TABLE OF PERMANENT PAVEMENTS.—Continued.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Court street,	Main street to Court Square avenue,	Rock asphalt,	317	1,149	1897
Court street,	Main street to Court Square avenue,	Brick,	—	174	1897
Court street,	Main street to Court Square avenue,	Brick,	—	128	1907
Court street,	Court Square avenue to Water street,	Bitulithic,	617	2,699	1911
Court Square avenue,	Court to Elm street,	Sheet asphalt,	193	503	1897
Court Square avenue,	Court to Elm street,	Brick,	—	330	1897
Cross street,	Main to Willow,	Wood blocks,	316	897	1913
Cypress street,	At Fulton street,	Granite blocks on concrete,	31	115	1915
Dwight street,	State to Lyman,	Wood blocks,	2,566	17,846	1918
Dwight street,	Lyman to Liberty,	Brick,	399	1,955	1915
East Court street,	Main to Market,	Rock asphalt,	117	297	1900
East Court street,	Market to Dwight,	Wood blocks,	294	740	1912
Eastern avenue,	State street to Wilbraham road,	Bitulithic,	84	340	1913
Elm street,	Main to Court Square avenue,	Sheet asphalt,	343	949	1897
Elm street,	Main to Court Square avenue,	Brick,	—	330	1897
Emery street,	Main street to foot of hill,	Wood blocks,	611	2,068	1914
Ferry street,	Foot of hill to Chestnut,	Bitulithic,	1,389	3,597	1910
Ferry street,	Cypress to Auburn,	Granite blocks,	104	265	1915
Fulton street,	Main to Market street,	Granite blocks,	1,505	9,041	1916
Harrison avenue,	Market to Dwight street,	Sheet asphalt,	210	816	1916
Harrison avenue,	Dwight to Chestnut street,	Sheet asphalt,	377	1,439	1915
Hayden alley,	Hayden to Andrew street,	Granite blocks,	224	292	1917
Hickory street,	Walnut to Eastern avenue,	Mixed concrete,	183	292	1917
Hillman street,	Dwight to Chestnut,	Brick,	792	1,644	1917
Hubbard avenue,	Main to Willow street,	Granite blocks,	284	857	1915
King street,	Street Railway turnout,	Wood blocks,	382	722	1915
Liberty street,	Main street, easterly 311 feet,	Bitulithic,	317	1,023	1908
			311	1,335	1911

TABLE OF PERMANENT PAVEMENTS.—Continued.

Name.	Limits.	Material.	Length in feet	Area in sq. yds.	Year Laid
Liberty street,	Extension to foot of hill,	Wood blocks,	799	3,366	1915
Liberty street,	Foot of hill at Chestnut street,	Granite blocks,	306	1,272	1915
Liberty street,	Chestnut to Cass,	Brick,	1,399	4,571	1900
Liberty street,	Cass street to Heywood avenue,	Brick,	1,147	3,971	1901
Liberty street,	Heywood avenue to Armory street,	Brick,	2,030	7,280	1916
Locust street,	At watering trough,	Brick,	—	50	1913
Locust street,	Main to Mill, between tracks,	Brick,	—	1,135	1913
Locust street,	Main to Mill,	Bitulithic,	826	3,153	1913
Lyman street,	East and west of Dwight street between tracks,	Granite blocks,	—	200	1915
Lyman street,	Dwight street intersection,	Wood blocks,	75	313	1918
Magazine street,	Worthington to Lincoln,	Grit asphalt,	961	3,992	1914
Main street,	Locust to Marble,	Brick,	840	4,381	1897
Main street,	Marble to William,	Brick,	1,762	8,307	1896
Main street,	Bliss to William, between tracks,	Wood blocks,	1,150	1,854	1906
Main street,	Bliss to Park, east side,	Wood blocks,	—	971	1916
Main street,	Park to William, east side,	Wood blocks,	—	—	1917
Main street,	Bliss to William, west side,	Wood blocks,	—	—	1917
Main street,	Bliss to State,	Wood blocks,	—	3,635	1893
Main street,	State to Worthington,	Brick,	241	1,355	1893
Main street,	Worthington to Hampden, west side,	Wood blocks,	1,899	10,798	1904
Main street,	Worthington to Lyman, east side,	Wood blocks,	382	1,183	1904
Main street,	Hampden to Lyman, west side,	Wood blocks,	1,137	1,137	1917
Main street,	Lyman to Liberty,	Wood blocks,	153	600	1903
Main street,	Liberty to Sharon, east side,	Wood blocks,	484	2,780	1903
Main street,	Liberty to Sharon, west side,	Wood blocks,	453	1,135	1903
Main street,	Sharon to Franklin,	Wood blocks,	509	1,487	1907
Main street,	near Franklin, east side,	Wood blocks,	36	2,103	1907
Main street,		Brick,	—	144	1907

TABLE OF PERMANENT PAVEMENTS.—Continued.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Main street,	Franklin to Carew, east side,	Brick,	1,302	4,605	1897
Main street,	Franklin to Greenwood, bet. tracks,	Brick,	—	360	1914
Main street,	Emery to Seventh, west side,	Wood blocks,	1,105	3,203	1915
Main street,	Clinton to Sargeant, west side, between tracks,	Wood blocks,	—	511	1915
Main street,	Clinton to Carew, west side, between tracks and "Green,"	Concrete,	—	217	1915
Main street,	Seventh to Sargeant, west side,	Grit asphalt on old brick,	350	941	1914
Main street,	Crossing opposite Auburn street,	Brick,	—	163	1903
Main street, I. O.,	305 feet west of Oak street to east line of French Church,	Grit asphalt,	1,362	7,098	1915
Maple street,	North line of Avon place to Central street,	Grit asphalt,	242	1,028	1915
Mill street,	Locust street, easterly,	Brick,	—	511	1913
New street,	Liberty to Carew,	Mixed concrete,	348	850	1916
North street,	Carew to Morgan,	Bitulithic,	2,246	11,601	1914
North Main street,	Morgan to Bancroft,	Wood blocks,	789	4,194	1915
North Main street,	Bancroft to Calhoun,	Wood blocks,	879	4,544	1909
North Main street,	Calhoun to Grove,	Wood blocks,	839	4,210	1910
North Main street,	Grove to Thomas,	Wood blocks,	673	3,466	1911
North Main street,	Grove to Thomas, between rails,	Wood blocks,	691	2,536	1912
North Main street,	Thomas street to Chicopee line,	Wood blocks,	—	1,012	1913
North Main street,	At Wason avenue,	Wood blocks,	3,266	16,151	1913
Oak street, I. O.,	Main to south line of Worcester street,	Brick,	—	196	1908
Orange street,	Intersection of White street,	Grit asphalt,	364	1,684	1916
Park street,	Main to Willow,	Brick,	85	370	1914
Pearl street,	Spring to Byers,	Wood blocks,	326	1,014	1915
		Granite blocks,	244	741	1918

TABLE OF PERMANENT PAVEMENTS.—Continued.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Plainfield street, Plainfield street, Plainfield street,	Sargeant street, westerly, Extension to B. & M. R. R., B. & M. R. R., northerly (includes 188 feet in West street), Granite blocks to Wason avenue, Worthington to Fort street, Main to Water, Water street, easterly, Main to Market, Market to Dwight, State to Worthington, Worthington to Lyman, Water street, easterly, Main street, westerly, Main to Dwight, At Dwight street, Dwight to Maple, Walnut street, westerly, Federal to Oak, At Walnut street, At St. James avenue, Oak to Stebbins, Stebbins to Terrence, Terrence to Westminster, Oak to Westminster, widening to north and south curb, from Oak to Ter- rence, and between tracks Terrence to Westminster,	Brick, Brick, Granite blocks, Grit asphalt, Mixed concrete, Bitulithic, Granite blocks, Sheet asphalt, Wood blocks, Bitulithic, Granite blocks, Wood blocks, easterly, Main street, westerly, Main to Dwight, Dwight to Maple, Walnut street, westerly, Federal to Oak, At Walnut street, At St. James avenue, Oak to Stebbins, Stebbins to Terrence, Terrence to Westminster, Oak to Westminster, widening to north and south curb, from Oak to Ter- rence, and between tracks Terrence to Westminster,	1,456 254 396 4,939 80 870 326 102 246 1,820 507 360 598 478 344 527 847 762 386 639 —	8,690 1,559 3,073 19,477 111 2,866 1,246 207 806 6,133 1,739 1,321 2,357 2,403 79 1,936 4,063 4,590 278 183 3,031 1,497 3,256 4,854	1902 1916 1916 1917 1914 1911 1915 1900 1912 1913 1913 1914 1909 1908 1914 1914 1897 1908 1907 1909 1910 1911 1913

TABLE OF PERMANENT PAVEMENTS.—Continued.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
State street,	Westminster to Buckingham,	Wood blocks,	360	2,520	1913
State street,	Buckingham to Sherman,	Bitulithic,	477	5,596	1913
State street,	Sherman to Catharine,	Grit asphalt,	190	782	1915
State street,	Catharine to N. Y., N. H. & H. R. R.,	Wood blocks,	633	3,112	1915
	N. Y., N. H. & H. R. R. to Amaron street,	Wood blocks,	1,106	4,271	1912
State street,	N. Y., N. H. & H. R. R. to Amaron, between rails,	Wood blocks,	—	1,490	1913
State street,	Amaron to Pine Point,	Hassam concrete,	6,860	36,871	1914
St. James avenue,	175 feet west of Dartmouth to 175 feet east of Princeton,	Grit asphalt,	1,182	6,198	1917
St. James avenue,	N. Y., N. H. & H. R. R. to B. & A. R. R.,	Hassam concrete,	1,945	9,195	1913
Stockbridge street,	B. & A. R. R. to Chicopee line,	Mixed concrete,	6,547	13,094	1915
Summer street,	Main to Willow,	Wood blocks,	317	770	1914
Summer avenue,	Armory street, westerly,	Old granite blocks,	376	1,306	1914
Summer avenue,	Oakland street to "X," between tracks,	Grit asphalt,	—	2,073	1915
Summer avenue,	Oakland street to "X," south side,	Grit asphalt,	1,244	3,083	1915
Taylor street,	Intersection of Belmont avenue,	Brick,	—	83	1914
Townley avenue,	Dwight to Chestnut,	Wood blocks,	396	1,465	1914
Union street,	Main to Willow,	Bitulithic,	142	214	1908
Vernon street,	State to Union, west side,	Wood blocks,	331	1,110	1914
Walnut street,	Union to Pine, west side,	Bitulithic,	821	2,047	1911
Walnut street,	Front of Engine house,	Brick,	—	721	1899
Walnut street,	State to Pendleton avenue, east side,	Brick,	—	1,446	1900
Walnut street,	State to Pendleton avenue, between rails,	Wood blocks,	—	98	1914
Walnut street,	Pendleton avenue to King street, between rails,	Wood blocks,	1,521	2,168	1914
Walnut street,		Grit asphalt,	—	753	1913
			—	246	1915

TABLE OF PERMANENT PAVEMENTS.—*Concluded.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Walnut street,	Pendleton avenue to Six Corners,	Wood blocks,	2,068	6,573	1915
Walnut street,	Six Corners to top of hill,	Grit asphalt,	1,066	3,485	1914
Water street,	Hamptden to Cypress,	Granite blocks,	879	5,971	1915
West street,	North of Park,	Grit asphalt,	437	1,332	1916
West street,	South of Park,	Grit asphalt,	106	881	1916
White street,	At B. & M. Bridge (see Plainfield street),	Granite blocks,	1,610	2,400	1902
Wilbraham road,	Near Allen to Orange, between rails,	Brick,	657	3,255	1913
William street,	Winchester street to N. Y., N. H. & H. R. R.,	Bitulithic,	593	1,898	1914
Willow street,	Main to Dale,	Mixed concrete,	1,189	3,443	1912
Worthington street,	Water street to Broadway,	Wood blocks,	299	1,061	1909
Worthington street,	Main to Dwight,	Wood blocks,	747	2,590	1917
Worthington street,	Dwight street to Fairbanks place,	Sheet asphalt on old brick,	1,040	2,905	1901
Worthington street,	Chestnut street to Fairbanks place, north side,	Brick,	—	897	1917
*Worthington street,	Fairbanks place to east line of Spring street,	Wood blocks,	269	1,003	1903
Worthington street,	At Sackett place,	Brick,	265	886	1908
Worthington street,	Federal to Armory,	Wood blocks,	374	1,312	1908

*Re-laid on north side with old material, 1917.

RECAPITULATION.

Wood blocks,.....	6.36 miles
Brick,.....	3.50 miles
Mixed concrete,.....	5.01 miles
Bitulithic,.....	2.29 miles
Grit asphalt,.....	3.34 miles
Hassam,.....	1.67 miles
Granite blocks,.....	1.53 miles
Sheet asphalt,.....	.40 miles
Sheet asphalt on brick,.....	.14 miles
Grit asphalt on brick,.....	.07 miles
Asphalt blocks,.....	.04 miles
Total,.....	24.35 miles

STREET CONSTRUCTION.
BITUMINOUS MACADAM.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depre- ciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
*Abbe avenue, ...	Plainfield street to river, ...	934	3,113	\$11.34	\$68.04	\$1,540.91	\$1.27
*Center street, ...	Oak Grove avenue to Acorn street, ...	1,046	3,057	9.86	59.16	1,350.79	1.03
*Clyde street, ...	Plainfield southwesterly, ...	460	1,329	7.00	42.00	703.99	1.53
*Coomes street, ...	Leete to Edgeland, ...	429	1,223	13.30	79.80	1,048.11	1.93
*Crane street, ...	Franklin northerly, ...	416	1,455	10.74	64.44	1,281.16	1.82
*Dunmoreland street, ...	Westford circle to King, ...	1,405	4,683	2.52	20.16	283.20	...
*Governor street, ...	Penacook to Armory, ...	184	647	15.06	90.36	2,134.17	1.22
*Hamburg street, ...	Extension to Silver, ...	184	647	3.36	20.16	466.20	1.31
*Kendall street, ...	Liberty to Sherman, ...	553	1,843	22.14	177.12	2,264.68	...
*Laurel avenue, ...	Franklin northerly, ...	414	1,225	7.64	45.84	997.09	1.57
*Leonard street, ...	Carew to Chicopee road, ...	1,598	5,327	8.78	52.68	1,108.55	2.05
*Liberty street, ...	Pecousic avenue to Main street, ...	836	2,748	92.74	556.44	6,984.68	1.31
*Marshall street, ...	Mill street extension, ...	329	1,510	15.03	90.51	1,708.26	1.45
*Moore street, ...	Plainfield to the river, ...	700	2,333	20.38	124.26	2,146.94	1.42
*Noel street, ...	Mill to Oakland, ...	...	...	15.64	93.84	1,773.55	1.49
*Page boulevard, ...	Westinghouse Plant to Berkshire avenue, ...	7,060	14,120	1.82	14.56	146.67	...
*Silver street, ...	Extension to Hamburg, ...	242	807	.34	2.72	10.89	1.43
*St. James boulevard, ...	Carew street to Page boulevard, ...	2,579	6,659	3.77	22.62	442.35	1.39
				123.70	989.60	12,081.61	2.03
Totals, ...		19,185	52,079	\$385.16	\$2,614.31	\$38,473.80	....

STREET CONSTRUCTION.
TAR BITUMINOUS CONCRETE.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depre- ciation.	Indi- rect Cost.	Total Cost.	Cost per sq. yd.
*Water street widening,	.....	530	3,761	\$82.80	\$662.40	\$8,505.22	\$2.26
*White street, ...	Belmont avenue to East Long- meadow line, ...	1,460	7,787	55.45	329.07	6,193.54	1.62
Totals, .....	.....	.....	.....	\$138.25	\$991.47	\$14,698.76	...

WATER-BOUND MACADAM.

*Longhill street, ...	Main, southerly to Warner, ...	1,537	6,665	\$90.45	\$542.70	\$8,040.13	\$1.64
*Summer avenue, ...	Daviston to Allen street, ...	3,941	11,590	141.16	1,129.28	15,709.31	1.36
*Worthington street, ...	At Kibbe Hollow (washout), .....	.....	.....	.....	.....	424.00	....
Totals, .....	.....	.....	.....	\$231.61	\$1,671.98	\$24,773.44	....

STREET CONSTRUCTION.

FENCES.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depre- ciation.	Indi- rect Cost.	Total Cost.	Cost per sq. yd.
Abbe avenue,.....				\$1.00	\$6.00	\$30.24	...
Forest Park avenue,...				.12	.72	3.53	...
Harvey street,.....				4.08	24.48	173.69	...
Worthington street,....				4.88	29.28	245.15	...
Totals,.....				\$10.08	\$60.48	\$452.61	...

MIXED CONCRETE.

†Berkshire avenue,.....	West side Pine Point to Bay street,...			\$0.64	\$5.12	\$20.09	
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GRIT ASPHALT.

West street,.....	North side widening and street resurfacing,.....	900	3,846	\$26.39	\$158.34	\$3,285.42	\$0.85
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STREET CONSTRUCTION.
GRAVEL.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depre- ciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
†Boston road,.....	Relocation,.....	....	....	\$0.70	\$5.60	\$35.93	...
Chicopee road,.....	Extension toward Chicopee,.....	910	1,820	10.14	60.84	954.82	\$0.52
†Plum Tree road,.....	Relocation,.....	....	....	.70	5.60	28.68	...
Totals,.....	.....	....	....	\$11.54	\$72.04	\$1,019.43	...

*Denotes completion of 1917 work. Unit cost includes 1917 work.

†Denotes incomplete work.

STREET CONSTRUCTION.

PAVING RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Brick,.....	194	714	\$4.88	\$3,482.02
Wood block,.....	2,340	17,846	6.47	115,392.60
Granite block,.....	244	741	6.38	4,723.48
Grit asphalt,.....	4,939	19,477	1.90	4,498.81
Total,.....	7,717	38,778	.....	\$128,096.91

MACADAM RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Water-bound,.....	3,941	11,590	\$1.36	\$15,709.31
Water-bound, com- pletion of 1917 work,.....	.....	.....	.....	9,064.13
Bituminous,.....	1,927	6,837	1.34	9,131.62
Bituminous, com- pletion of 1917 work,.....	.....	.....	.....	26,647.63
Bituminous, incom- plete,.....	.....	.....	.....	2,694.55
Total,.....	5,868	18,427	.....	\$63,247.24

GRIT ASPHALT RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Total,.....	900	3,846	\$0.85	\$3,285.42

STREET CONSTRUCTION.

TAR BITUMINOUS CONCRETE RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Total, completion of 1917 work,.....				\$14,698.76

GRAVEL RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Incomplete,.....	910	1,820	\$0.52	\$954.82 64.61
Total,.....	.....	.....	.....	\$1,019.43

TABLE OF SURFACE PAVEMENT.

Name	Limits.	Material.	Length in feet.	Area in sq. yds.
Abbe avenue,	Bridge approach,	Water-bound macadam,	872	2,325
Abbe avenue,	Fisk avenue to Plainfield street,	Bituminous macadam,	658	2,217
Abbe avenue,	Plainfield to river,	Bituminous macadam,	934	3,113
Acushnet avenue,		Water-bound macadam,	1,088	3,385
Adams street,		Bituminous concrete,	1,020	3,505
Agawam street,	Land of Hampden Paint Co. to Glen road,	Bituminous concrete,	230	809
Albany street,		Bituminous macadam,	636	1,484
Albemarle street,		Bituminous macadam,	1,493	4,977
Alden street,	Walnut street to Eastern avenue,	Bituminous concrete,	1,349	4,533
Alden street,	Eastern avenue to railroad,	Tar top,	715	2,453
Alden street,	Railroad, easterly,	Water-bound macadam,	660	2,617
Alderman street,		Bituminous macadam,	1,325	5,444
Alexander street,		Water-bound macadam,	414	1,380
Alfred street,		Water-bound macadam,	490	1,635
Allen street,	Mill street to N. E. R. R.,	Water-bound macadam,	4,017	*13,798
Allendale street,		Water-bound macadam,	663	2,094
Anaron street,		Bituminous macadam,	408	1,475
Amherst street,	Harvard to Monmouth,	Water-bound macadam,	1,233	4,069
Andrew street,	State to Dawes,	Water-bound macadam,	1,323	4,228
Arbor street,		Water-bound macadam,	437	1,222
Arch street,	Main street, westerly,	Water-bound macadam,	410	1,366
Arch street,	Extension to Birnie avenue,	Bituminous macadam,	293	1,002
Armory street,	B. & A. R. R. to Napier street,	Bituminous macadam,	294	1,097
Armory street,	Napier street to top of hill,	Water-bound macadam,	945	2,909
Armory street,	Top of hill to Liberty street,	Bituminous macadam,	386	1,272
Armory street,	Liberty to Carew,	Bituminous concrete,	1,561	5,351
Armory street,	Carew to Springfield,	Bituminous macadam,	4,267	14,406
Ashley street,		Water-bound macadam,	1,378	4,592

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Blake Hill,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	347	628
Bliss street,	Main street to foot of hill,	Water-bound macadam,	266	852
Bloomfield street,	Foot of hill to Chestnut street,	Bituminous macadam,	1,939	6,614
Bond street,	St. James avenue to Lincoln street,	Tar top,	1,520	5,076
Bond street,	Lincoln street to Ingersoll grove street,	Water-bound macadam,	49	154
Bowdoin street,	Bay to McKnight,	Bituminous concrete,	253	945
Bowles street,	McKnight to Pease,	Water-bound macadam,	1,691	5,532
Boylston street,	Plainfield to Fulton,	Water-bound macadam,	750	2,500
Bradford street,	Main street, westerly 493',	Bituminous macadam,	400	1,331
Bridge street,	Water street to Toll bridge,	Water-bound macadam,	864	1,921
Bridge street,		Bituminous concrete,	741	2,472
Broad street,		Granite blocks on sand,	249	1,746
Broadway,		Water-bound macadam,	959	713
Brookline avenue,		Bituminous macadam,	705	3,177
Brown street,		Water-bound macadam,	615	3,219
Bryant street,		Bituminous macadam,	508	2,050
Buckingham place,		Bituminous macadam,	897	1,887
Buckingham street,		Water-bound macadam,	275	2,990
Burlington street,		Water-bound macadam,	2,006	916
Burr street,		Bituminous macadam,	352	6,678
Butler street,		Bituminous macadam,	840	1,096
Byers street,	State to Frost,	Water-bound macadam,	1,525	2,339
Calhoun street,		Water-bound macadam,	480	2,885
Cambridge street,		Water-bound macadam,	1,129	1,193
Carew street,	Main to Chestnut,	Bituminous macadam,	1,564	3,435
Carew street,	Chestnut to near Bartlett,	Bituminous macadam,	1,620	4,899
Carew street,		Water-bound macadam,	998	5,463
				2,209

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Carow street,	"Driscoll's by-pass,"	Bituminous macadam,	700	4,499
Carow street,	Armory street, westerly,	Bituminous macadam,	704	2,382
Carow street,	Armory to Liberty,	Bituminous macadam,	1,632	7,382
Cass street,		Water-bound macadam,	1,762	5,407
Caseland street,		Bituminous macadam,	1,154	5,419
Catharine street,	Bay to Dartmouth,	Water-bound macadam,	150	493
Cedar street,		Tar top,	1,725	5,992
Central street,	Main to Ashmun,	Bituminous concrete,	885	2,809
Central street,	Ashmun to Maple,	Water-bound macadam,	476	1,285
Central street,	Maple to Mill,	Water-bound macadam,	4,018	10,023
Central street,	Cedar to Mill,	Water-bound macadam,	—	**2,705
Center street,	Oak Grove avenue to Acorn street,	Bituminous macadam,	1,046	3,057
Centre street, I.O.,	Cedar street, easterly,	Bituminous macadam,	382	1,273
Chapel street,		Bituminous macadam,	443	1,397
†Chapin terrace,	Chestnut to Marvin,	Water-bound macadam,	601	3,112
Chapin terrace,	Marvin street to 125' east of Narragansett,	Bituminous macadam,	466	2,729
Charles street,	Liberty to Franklin,	Bituminous concrete,	626	1,940
Charles street,	Liberty street to land of B. & A. R. R.,	Granite blocks on sand,	150	376
Chase avenue,		Water-bound macadam,	583	1,943
Cherryvale avenue,		Water-bound macadam,	687	2,290
Chester street,		Bituminous macadam,	910	2,702
Chestnut street,	State street to top of hill,	Glutrin-bound macadam,	207	552
Chestnut street,	Top of hill to Edwards street,	Bituminous concrete,	599	1,901
Chestnut street,	Edwards street to Harrison avenue,	Roemac,	173	590
Chestnut street,	Harrison avenue to Pearl street,	Bituminous concrete,	281	2,630
Chestnut street,	Bridge to Worthington,	Bituminous concrete,	441	2,368
Chestnut street,	Worthington to Linden,	Granite blocks on sand,	2,368	8,389
Chestnut street,	Jefferson avenue to Springfield street, west side,	Bituminous macadam,	1,840	4,388

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Chestnut street,	Jefferson avenue to Springfield street, east side, Montmorenci to Springfield,	Bituminous macadam,	—	4,604
Chestnut street,		Water-bound macadam,	—	**2,908
Church street,		Tar top,	832	2,579
Churchill street,		Water-bound macadam,	575	1,919
Clantoy street,	Bay street to Dartmouth terrace,	Bituminous macadam,	1,251	4,224
Clarendon street,		Water-bound macadam,	1,592	6,038
Clark street,		Water-bound macadam,	619	1,100
Clifford street,		Bituminous macadam,	449	1,497
Clifton avenue,		Bituminous macadam,	518	1,140
Cliftwood street,		Bituminous macadam,	458	1,163
Clinton street,		Bituminous concrete,	672	1,813
Clyde street,		Bituminous macadam,	460	1,329
College street,	State street to Wilbraham road, State street to 300' north of Shattuck street,	Water-bound macadam,	527	1,522
Collins street,		Bituminous macadam,	1,078	3,864
Colton street,	Wilbraham road to Union street, Union to Beacon street,	Bituminous concrete,	519	1,571
Commonwealth ave.,		Bituminous macadam,	772	1,970
Concord terrace,	Belmont avenue to Glenwood street, Main to North,	Bituminous macadam,	848	2,627
Congress street,		Bituminous macadam,	1,094	3,506
Congress street,	North street to foot of hill, Foot of hill to Chestnut street,	Bituminous concrete,	339	1,507
Continental avenue,		Bituminous concrete,	932	2,386
Cornell street,		Bituminous concrete,	314	803
Cortland street,		Water-bound macadam,	244	576
Coomes street,		Bituminous macadam,	453	1,510
Crane street,		Water-bound macadam,	1,283	4,275
Cross street,	Willow to Maple,	Bituminous macadam,	650	2,167
Cross street,		Bituminous macadam,	429	1,223
		Water-bound macadam,	416	1,455
			608	1,416

TABLE OF SURFACE PAVEMENT.—CONTINUED

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Crystal avenue, Cumberland street, Cumberland street, Cypress street, Dale street, Dartmouth street, Dartmouth terrace, Dartmouth terrace, Dawes street, Daytona street, Demond avenue, Dickinson street, Dickinson street, Dickinson street, Dickinson street, Donald street, Dorchester street, Douglas street, Dresden street, Dunmoreland street, Eagle street, East Hooker street, Eastern avenue, Eastern avenue, Eastern avenue, Edwards street, Elliott street, Elm street,	Main to North, North to Chestnut, Main to Fulton, Cornell street, southerly, Worthington to Clarendon, west roadway, Between tracks on hill, Bailey square to Marengo park, Marengo park to the "X", "X" to Longmeadow line, Wilbraham road to Westford avenue, Wilbraham road to King street, King to Alden street, Alden to Hickory street, Court Square avenue to Water street,	Water-bound macadam, Bituminous macadam, Water-bound macadam, Granite blocks on sand, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, 411 Bituminous macadam, 590 Bituminous macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, 761 Water-bound macadam, Bituminous concrete, Bituminous macadam, 444 Bituminous macadam, Water-bound macadam, Water-bound macadam, 748 Bituminous macadam, Bituminous macadam, Water-bound macadam, 679 Water-bound macadam, Bituminous concrete, Tar top, Bituminous concrete, Water-bound macadam, Bituminous concrete, 4372 Bituminous concrete, 606	930 372 426 644 812 1,132 488 411 1,237 590 859 692 3,122 2,668 444 567 540 1,800 2,489 1,481 556 1,786 2,052 1,257 675 1,007 606	3,100 1,240 1,420 2,433 2,051 5,159 2,544 939 4,125 1,966 2,863 354 3,733 16,402 11,215 1,480 1,887 1,800 2,489 4,945 1,855 1,786 7,199 4,460 4,372 2,219 3,342 2,076

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Elm street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	243	608
Elmwood street,	Main to North,	Water-bound macadam,	896	2,738
Essex street,	North to foot of hill,	Tar top,	891	2,871
Essex street,	Foot of hill to Chestnut street,	Bituminous concrete,	454	1,462
Euclid avenue,		Water-bound macadam,	198	639
Everett street,		Water-bound macadam,	1,169	3,896
Fairfield street,		Water-bound macadam,	1,500	4,859
Farnsworth street,	Hamburg street, easterly, 20' wide,	Water-bound macadam,	882	2,940
Farnsworth street,	Extension to Chicopee line,	Water-bound macadam,	513	1,710
Federal street,	At Pearl street,	Bituminous macadam,	882	2,983
Federal street,	Pearl to Summer,	Bituminous concrete,	124	464
Firglade avenue,	Maplewood terrace to Pineywoods avenue,	Water-bound macadam,	949	3,814
Fisk avenue,	Pineywoods avenue to Washington boulevard,	Water-bound macadam,	1,332	4,433
Florence street,	Pine to Hancock,	Bituminous macadam,	520	1,733
Florence street,	Hancock to Walnut,	Water-bound macadam,	1,682	6,240
Florentine Gardens,		Water-bound macadam,	1,582	4,346
Florida street,	Bay street to St. James avenue,	Bituminous macadam,	281	927
Florida street,	St. James avenue to Ingersoll grove,	Water-bound macadam,	706	3,501
Forest street,		Tar top,	543	1,811
Forest Park avenue,	Sumner to Pineywoods,	Water-bound macadam,	1,649	5,057
Forest Park avenue,	Sumner avenue to Forest street,	Water-bound macadam,	784	2,502
Forest Park avenue,	Forest st. to Fort Pleasant ave., 22½' wide,	Bituminous macadam,	832	3,015
Fort street,	Mill street to Chase avenue and Warner street	Water-bound macadam,	752	3,846
Fort Pleasant avenue,	to Sumner avenue, southerly,	Water-bound macadam,	1,760	4,475
Fort Pleasant avenue,	East side Mill street, southerly,	Granite blocks on sand,	670	1,770
Fort Pleasant avenue,		Water-bound macadam,	1,793	7,325
		Tar top,	—	3,000

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Greenwood street, Grenada terrace, Grosvenor street, Grove street, Grover street, Hall street, Hamburg street, Hamburg street, I. O., Hampden street, Hampden street, Hancock street, Hancock street, Hancock street, Harriet street, Harvard street, Hawley street, Hawthorne street, Hebron street, Heywood street, Hiawatha street, Hickory street, Hickory street, High street, High street, Hillman street, Hollywood street, Holyoke street,	Foot of hill to Chestnut, Springfield street to angle 20' wide, Angle to Silver street, Oak to Pine, State to Walnut, Walnut to Clark, Clark to Central, Eastern avenue to Sheffield street and Alden street to Carlisle brook, N. Y., N. H. & H. R. R. to Alden street, Maple to School, School to Walnut, Main to Dwight,	Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Bituminous concrete, Tar top, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Tar top, Water-bound macadam, Bituminous concrete, Bituminous macadam, Water-bound macadam,	184 1,095 738 612 1,343 992 574 184 517 606 3,231 885 510 816 1,565 368 540 698 250 833 481 3,918 1,080 763 1,800 648 736 776	602 5,820 2,286 1,734 4,156 3,307 1,786 647 2,068 2,360 11,386 2,949 2,024 2,720 5,206 1,226 1,374 1,374 2,204 833 1,709 9,945 2,573 1,926 3,618 2,025 2,513 2,001

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Leonard street, Lenox street, Lexington avenue, Lexington terrace, Leyfried terrace, Liberty street,	Chestnut to Massasoit street, Massasoit street, easterly, Armory street to St. R. R. turnout, south side and tracks,	Bituminous macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam,	414 450 622 430 625	1,225 1,200 1,659 1,266 2,102
Liberty street,	Armory street to St. R. R. turnout, north side and thence full width to Carew street, Carew street to Chicopee road, Chicopee road to Chicopee line,	Tar top, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam,	1,750 500 1,653 — 387 1,287 384	3,383 1,888 5,633 **8,026 989 5,148 1,280
Liberty street, Liberty street, Liberty street, Lillian street, Linden street, Litchfield street, Locust street,	Belmont avenue to Dickinson street (includes Bailey square), Main to Warner street (tar gutters), Warner street to Sumner avenue, Sumner avenue to Cherryvale street, Summer avenue to Cherryvale street, west track, Cherryvale avenue to Washington boulevard, Longhill street to Longmeadow line,	Bituminous macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Granite blocks on sand,	3,068 1,167 590 1,537 475 800 — 540 2,930 551 707 1,390 1,305	10,279 3,980 1,667 6,665 2,321 3,208 715 3,404 7,813 1,917 2,294 4,633 4,168
Logan street, Lombard street, Longhill street, Longhill street, Longhill street, Longhill street, Longhill street, Longmeadow street, Longview street, Loring street, Lowell street, Lyman street,				

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Lyman street,	Chestnut to Spring,	Granite blocks on sand,	731	3,044
Lyndale street,		Bituminous macadam,	1,059	3,530
Madison avenue,	Sumner avenue to Pineywoods avenue,	Water-bound macadam,	529	1,657
Magnolia terrace,	Pineywoods avenue to Washington boulevard,	Water-bound macadam,	1,141	6,209
Main street,	Locust street to Pecousic avenue,	Bituminous macadam,	312	1,832
Main street, I. O.,	Pecousic avenue, southerly,	Tar top,	1,573	7,524
Main street, I. O.,	Front street to asphalt paving,	Water-bound macadam,	1,000	3,517
Main street, I. O.,	Front street to asphalt paving,	Water-bound macadam,	698	2,411
Manhattan street,	Asphalt to Wilbraham line,	Water-bound macadam,	—	**364
Maple court,		Tar top,	4,399	24,852
Maple street,	State street to Avon place,	Bituminous macadam,	1,101	2,799
Maple street,	Central street to top of hill,	Bituminous macadam,	712	1,760
Maple street,	Top of hill to Pine street,	Bituminous concrete,	1,914	7,167
Maple street,	Pine to George,	Roemac,	725	2,062
Maple street,	George to Mill,	Bituminous concrete,	1,039	3,119
Mapledell street,		Tar top,	387	1,142
Maplewood terrace,		Water-bound macadam,	494	1,570
Maplewood terrace,		Water-bound macadam,	972	3,239
Maplewood terrace,	Ft. Pleasant ave. to Forest Park ave., south side,	Water-bound macadam,	1,301	3,075
Maplewood terrace,	Forest Park avenue to Riverview ter., north side,	Water-bound macadam,	—	1,874
Marble street,	Fort Pleasant ave. to Riverview ter., north side,	Bituminous macadam,	—	1,237
Marengo park,		Water-bound macadam,	1,074	3,508
Margaret street,	Main to Water,	Water-bound macadam,	1,869	6,230
Margaret street,	Water street to N. Y., N. H. & H. R. R.,	Bituminous concrete,	844	2,861
Marion street,	Bay to McKnight,	Water-bound macadam,	534	775
Market street,		Bituminous macadam,	870	2,898
Marshall street,	Includes 103 yds. in Melrose,	Bituminous concrete,	968	1,887
		Bituminous macadam,	836	2,748

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Mason street, Massachusetts avenue, Massasoit street, Massasoit street, Massasoit street, Mattoon street, Maynard street, McKnight street, Medford street, Merrick street, Merwin street, Middlesex street, Mill street, Mill street, Mill street extension, Monmouth street, Monroe street, Monroe street, Montmorenci street, Montrose street, Moore street, Mooreland street, Morgan street, Morningside park, Morris street, Mountainview street, Mulberry street, Mulberry street,	Carew to Prospect, Prospect to 143' north of Montmorenci street, Chapin terrace to Pratt street, (Includes Salem street), State to Shattuck, Sherman to Bowles, Wilbraham road to Marlborough street, Main to Maple and Mill river to Dickinson, Maple to Mill river, Pecousic avenue to Main street, Hancock street to Eastern avenue, Eastern avenue to Colton street, White street to Trinity terrace, Maple to east side School street, School to Union,	Bituminous macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Bituminous concrete, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound concrete, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous concrete, Water-bound macadam, Water-bound macadam,	661 1,457 851 1,148 430 1,358 782 532 624 326 713 787 2,493 757 520 1,168 1,345 281 620 973 700 1,417 849 330 1,022 682 703 1,322	2,203 7,346 2,803 3,827 1,440 4,019 3,476 1,773 2,080 1,021 2,377 2,623 10,788 2,776 2,827 4,000 3,736 780 2,067 3,242 2,333 3,723 2,924 1,232 3,031 2,330 2,298 3,223

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Murray Hill avenue, Myrtle street,		Water-bound macadam,	600	2,000
Narragansett street,		Water-bound macadam,	484	997
Nelson street,		Bituminous macadam,	1,272	4,364
Norfolk street,		Bituminous macadam,	695	2,134
North street,	Carew street to Jefferson avenue,	Bituminous macadam,	824	3,160
North street,	Jefferson avenue to Cumberland street,	Tar top,	2,045	8,243
Northampton avenue,	Wilbraham road to Beverly street,	Water-bound macadam,	1,520	4,505
Northampton avenue,	Beverly street to south side of Gunn square,	Water-bound macadam,	1,229	4,096
Norwood street,		Water-bound macadam,	438	1,524
Oak street,		Water-bound macadam,	1,117	2,911
Oak street, I. O.,		Bituminous concrete,	1,356	4,462
Oak street, I. O.,	Water to Main and Worcester to Berkshire,	Water-bound macadam,	1,105	4,791
Oak Grove avenue,	Worcester to Berkshire,	Water-bound macadam,	—	**1,610
Oakland street,		Bituminous macadam,	2,792	9,709
Oakland street,	Summer avenue to Dickinson street,	Bituminous concrete,	1,565	7,075
Oakland street,	Dickinson to top of hill near Water Shops,	Bituminous concrete,	1,888	6,503
Oakland street,	Top of hill to Allen street,	Water-bound macadam,	696	2,169
Olive street,		Water-bound macadam,	478	1,248
Orange street,	Bailey square to Allen street,	Water-bound macadam,	4,027	15,702
Orchard street,	Plainfield street, westerly,	Water-bound macadam,	1,040	3,467
Orchard street,	Extension to river,	Bituminous macadam,	383	1,247
Orlando street,		Bituminous macadam,	735	2,250
Orleans street,		Water-bound macadam,	1,509	4,293
Ormond street,		Bituminous macadam,	365	1,222
Osgood street,		Water-bound macadam,	894	3,000
Oxford street,		Bituminous macadam,	663	2,219
Page boulevard,	St. James avenue to east line Westinghouse Co. property,	Bituminous macadam,	8,034	30,691

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Palmer avenue, Park street, Parkwood street, Pasco road, I. O., Patton street, Patton street, Patton street, Pearl street, Pease street, Pecousic avenue, Pecousic avenue, Pecousic avenue, Pecousic avenue, Pendleton avenue, Phoenix street, Pine street, Pine street, Pineywoods avenue, Pineywoods avenue, Pineywoods avenue, Plainfield street, Pleasant street, Plymouth street, Pomona street, Portland street, Pratt street, Prince street, Princeton street,	Foot of hill to Maple street, Essex street, southerly, Main to North, North to foot of hill, Foot of hill to Chestnut, Chestnut to Spring, Gardner to Main street, Main to Agawam, east roadway, Main street to Leary's line, Leary's line to Longhill street, Mill to Maple, Maple to Walnut, Washington boulevard to Florentine Gardens, Florentine Gardens to Washington road, Washington road to Forest Park avenue, Wasoon avenue to Chicopee line, Bay to Cornell,	Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Tar top, Bituminous concrete, Water-bound macadam, Bituminous concrete, Bituminous concrete, Bituminous macadam, Bituminous macadam, Bituminous concrete, Bituminous concrete, Bituminous macadam, Tar top, Bituminous macadam, Water-bound macadam, Bituminous concrete, Bituminous macadam, Water-bound macadam, Bituminous macadam, Tar top, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam,	991 539 450 611 868 488 217 983 382 2,301 — 2,691 1,420 2,586 602 1,003 3,417 490 1,273 329 423 428 479 882 610 600 327 1,776	3,177 1,052 1,500 2,475 3,007 1,627 723 2,817 1,468 17,267 3,436 8,727 3,313 6,467 2,101 1,348 12,986 1,633 4,243 1,097 979 1,141 1,597 3,157 2,033 2,000 1,098 7,219

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Sharon street, Shattuck street, Shefford street, Sheldon street, Sherman street, Silver street, Sorrento street, Springfield street,	Foot of hill to Chestnut street, Springfield to Springfield, Chestnut street to Atwater terrace and Ham- burg street to Chicopee line, Chestnut to Atwater Glen, Atwater Glen to top of hill, Russell's, south line, to Shefford street, Shefford to Army. Armory street intersection, Armory street to Chicopee line,	Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Tar top, Water-bound macadam, Bituminous macadam, Bituminous concrete, Bituminous macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Granite blocks on sand, Water-bound macadam, Tar top, Glutrin-bound, Tar top, Tar top, Water-bound macadam, Tar top,	212 1,121 1,164 651 1,623 868 799 — 820 931 369 1,037 225 1,027 699 1,370 460 197 2,211 — — 256 259 973 3,146	393 3,707 3,879 2,027 5,394 2,894 2,685 *1,242 3,437 1,862 1,972 4,800 780 2,738 1,737 4,566 1,567 542 11,727 1,958 1,180 451 456 3,243 15,348
Sharon street, Shattuck street, Shefford street, Sheldon street, Sherman street, Silver street, Sorrento street, Springfield street, Springfield street, Springfield street, Springfield street, Springfield street, Springfield street, Spruce street, Spruce street, Stafford street, State street, State street, State street, State street, State street, Stearns square, Stearns square, Stebbins street, St. James avenue,	Foot of hill to Chestnut street, Springfield to Springfield, Chestnut street to Atwater terrace and Ham- burg street to Chicopee line, Chestnut to Atwater Glen, Atwater Glen to top of hill, Russell's, south line, to Shefford street, Shefford to Army. Armory street intersection, Armory street to Chicopee line, Chestnut street to City Library, Library to east line of High School of Commerce, North side, Library to School street, North side, School street, easterly, West of Park, East of Park, State street to 175' west of Dartmouth street, and 175' east of Princeton to N. Y., N. H. & H. R. R.,	Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Tar top, Water-bound macadam, Bituminous macadam, Bituminous concrete, Bituminous macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous macadam, Granite blocks on sand, Water-bound macadam, Tar top, Glutrin-bound, Tar top, Tar top, Water-bound macadam, Tar top,	212 1,121 1,164 651 1,623 868 799 — 820 931 369 1,037 225 1,027 699 1,370 460 197 2,211 — — 256 259 973 3,146	393 3,707 3,879 2,027 5,394 2,894 2,685 *1,242 3,437 1,862 1,972 4,800 780 2,738 1,737 4,566 1,567 542 11,727 1,958 1,180 451 456 3,243 15,348

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
St. James boulevard, Stockbridge street, Summer street, Summer avenue, Summer avenue, Summer avenue, Summer avenue, Summer avenue, Summer avenue, Summer avenue, Summer avenue, Summer terrace, Talcott avenue, Taylor street, Temple street, Tenth street, Tenth street, Tenth street, Terrence street, Thomas street, Thompson street, Thompson street, Tracy street, Tyler street, Tyler street, Tyler street, Union street,	22' wide in center of street, Willow to foot of hill, Spring street to 85' west of Federal, Longhill to Fort Pleasant avenue car tracks, Ft. Pleasant avenue to Oakland st., north track, Longhill street to Forest Park entrance, Beechwood to Forest Park avenue, south side, Forest Park entrance to Lenox street, north side, Forest Park entrance to Oakland street, south side, Lenox street to 90' west of Ventura, 90' west of Ventura to Daviston street, Daviston to Allen street, Main to Dwight, Main to North, North street to foot of hill, Foot of hill to Chestnut, State to Bay, Bay to Worthington, Oak to Hancock, Hancock street to Eastern avenue, Eastern avenue to Colton street, Water street to N. Y., N. H. & H. R. R.,	Bituminous macadam, Water-bound macadam, Granite blocks on sand, Bituminous macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Bituminous concrete, Bituminous macadam, Water-bound macadam, Bituminous macadam, Bituminous concrete, Bituminous concrete, Water-bound macadam, Water-bound macadam, Water-bound macadam, Tar top, Water-bound macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam,	2,579 318 2,613 — — 3,219 — 1,700 393 484 2,948 3,941 427 721 552 953 908 397 212 601 2,380 583 786 1,307 425 1,346 1,343 275 414	6,659 499 8,176 1,288 13,478 10,784 3,155 4,236 895 5,626 19,452 11,590 2,268 3,134 1,857 2,570 2,574 1,123 601 2,380 1,945 2,582 4,024 1,363 4,002 4,326 892 1,702

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Union street,	Water to Main,	Bituminous concrete,	935	3,049
Union street,	Willow to foot of hill,	Water-bound macadam,	394	1,160
Union street,	Maple to School,	Bituminous concrete,	640	1,924
Union street,	School to Mulberry and Oak to Eastern avenue,	Water-bound macadam,	3,448	12,327
Union street,	Mulberry to Walnut,	Bituminous concrete,	859	3,006
Union street,	Walnut to Oak,	Bituminous concrete,	424	1,122
Union street,	Eastern avenue to Colton street,	Bituminous macadam,	291	894
Vassar street,		Bituminous macadam,	495	1,685
Ventura street,		Bituminous macadam,	804	2,680
Vine street,		Water-bound macadam,	745	1,892
Vinton street,		Water-bound macadam,	612	2,465
Wait street,		Bituminous macadam,	1,428	3,808
Walnut street,	Hickory street to top of hill,	Water-bound macadam,	440	1,961
Walter street,		Bituminous macadam,	390	1,300
Walham avenue,		Water-bound macadam,	985	2,628
Warner street,		Water-bound macadam,	691	2,152
Warwick avenue,		Water-bound macadam,	450	1,601
Warwick street,	Heywood street, easterly,	Water-bound macadam,	811	2,703
Washburn street,		Water-bound macadam,	1,400	4,667
Washington road,	Maplewood terrace to Pineywoods avenue,	Water-bound macadam,	1,083	3,610
Washington road,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	508	1,693
Washington street,	Dickinson to Commonwealth avenue,	Bituminous macadam,	523	1,847
Wason avenue,	Main street to B. & M. R. R.,	Water-bound macadam,	505	1,718
Wason avenue,	Main street to B. & M. R. R.,	Water-bound macadam,	—	**449
Wason avenue,	B. & M. R. R. to Plainfield street,	Bituminous macadam,	1,321	4,370
Water street,	Hampden to Bridge,	Granite blocks on sand,	586	3,906
Water street,	Bridge to William street,	Tar top,	2,974	9,089
Water street,	William street to Whitney place,	Bituminous concrete,	530	3,761

TABLE OF SURFACE PAVEMENT.—CONCLUDED

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Willow st. extension, Winchester street, Windsor street, Winthrop street, Wolcott street, Woodside terrace, Worcester avenue, Worcester street, I. O., Worthington street, Worthington street, Worthington street, Yale street, York street, York street,	Adams to Marble, Pine street to Fiberloid Co.'s driveway, 18' wide, Broadway to Main street, Spring street to Bowdoin street, Bowdoin to St. James avenue, Main street to Pecousic avenue, Pecousic avenue to N. Y., N. H. & H. R. R.,	Bituminous macadam, Bituminous macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Bituminous macadam, Water-bound macadam, Water-bound macadam, Water-bound macadam, Bituminous concrete, Water-bound macadam, Bituminous concrete, Water-bound macadam, Water-bound macadam,	826 378 679 659 439 937 811 4,994 404 4,147 747 1,493 407 593	4,878 1,252 2,241 2,397 1,463 3,123 2,709 10,988 1,418 11,429 2,590 5,142 1,085 1,912

TABLE OF SURFACE PAVEMENT.

RECAPITULATION.

	Miles.	Square yards.
Water-bound macadam,.....	43.86	791,280
Bituminous macadam,.....	31.55	621,469
Bituminous concrete,.....	13.16	251,857
Tar top,.....	8.47	177,362
Granite on sand,.....	1.71	31,574
Glutrin-bound macadam,.....	.70	8,942
Rocmac,.....	.17	2,652
	99.45	
Gravel roads,.....	46.61	
Dirt roads,.....	7.95	

* Includes macadam laid by Springfield Street Railway Company.

** Macadam laid by Springfield Street Railway Company

† Macadam laid by private parties.

STREET MAINTENANCE.

RESURFACING.

Streets.	Limits.	Materials.	Length in feet.	Area in sq. yds.	Depre- ciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Adams street, . . .	Main to Ashmun, . . .	Tar bituminous concrete, . . .	1,020	3,505	\$47.25	\$378.00	\$5,319.73	\$1.52
Essex street, . . .	North to foot of hill, . .	Grit asphalt, . . .	454	1,464	17.06	102.36	2,084.03	1.42
Federal street, . . .	Worthington to Sum- mer, . . .	Water-bound, . . .	536	1,434	2.02	12.12	129.92	.09
Fort Pleasant ave- nue, . . .	East side Mill street southerly, . . .							
Greenwood street, . .	North to foot of hill, . .	Tar top, . . .	1,188	3,000	16.02	96.12	1,473.12	.49
Liberty street, . . .	Carew street 400' westerly, . . .	Grit asphalt, . . .	389	1,295	12.54	75.24	1,642.62	1.27
*Main street, I. O.,	Lyons to Wilbraham line, . . .	Water-bound, . . .	433	882	10.56	84.48	675.61	.77
Main street, I. O.,	End of asphalt to top of hill, . . .	Tar top, . . .	3,133	18,409	90.27	540.78	6,141.90	.72
Mulberry street, . .	Maple to School, . . .	Tar top, . . .	1,266	6,443	73.51	441.06	4,729.93	.73
		Tar bituminous concrete, . . .	703	2,298	19.60	117.60	2,725.88	1.19
Oakland street,	Engine house to top of hill, . . .	Grit asphalt, . . .	1,888	6,503	74.36	446.16	9,809.90	1.51
Patton street, . . .	North street to foot of hill, . . .	Grit asphalt, . . .	488	1,627	22.45	134.70	2,741.68	1.68
State street, . . .	North side Library easterly, . . .	Tar top, . . .	984	1,958	15.62	93.72	1,292.00	.66
State street, . . .	North side Spring east- erly, . . .	Water-bound, . . .	475	1,180	10.60	63.60	770.64	.65

STREET MAINTENANCE.

RESURFACING.—*Concluded.*

Street.	Limits.	Materials.	Length in feet.	Area in sq. yds.	Depre- ciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Tenth street,.....	North to foot of hill,...	Grit asphalt,....	397	1,123	\$13.87	\$83.22	\$1,485.35	1.32
Union street,.....	Maple to School,.....	Tar bituminous concrete,.....	640	1,924	9.41	56.46	2,017.27	1.05
Walnut street,...	End of asphalt to Gov- ernment property,...	Water-bound,...	438	758	4.14	24.84	422.62	.56
Worthington street,.....	Armory to Bowdoin,...	Water-bound,...	856	2,492	6.23	37.38	460.98	.18
Worthington street,.....	Kibbe avenue to Fed- eral,.....	Water-bound,...	812	2,314	64.23	449.61	4,161.38	1.48
Worthington street,.....	Spring to Kibbe ave.,	Asphalt concrete,	1,513	5,059	74.47	521.29	7,764.97	1.53
Totals,.....	.....	.....	17,613	64,168	\$584.21	\$3,758.74	\$55,849.53	

*Denotes completion of 1917 work. Unit cost includes 1917 work.

STREET MAINTENANCE.
RESURFACING RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Water-bound mac- adam,.....	3,550	9,560	\$0.69	\$6,621.15
Tar top,.....	3,438	11,401	.66	7,495.05
Grit asphalt,.....	3,616	12,012	1.48	17,763.58
Tar bituminous con- crete,.....	2,363	7,727	1.30	10,062.88
Asphalt concrete,...	1,513	5,059	1.53	7,764.97
Total,.....	14,480	45,759	.....	\$49,707.63

STREET MAINTENANCE.

REPAIRS.

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Acushnet avenue,.....	.....	\$24.26	.....	.....	.....	.....	\$24.26
Alden street,.....	.....	49.55	.....	.....	.....	.....	49.55
Allen street,.....	\$3,885.08	.....	.....	.....	.....	.....	3,885.08
Andrew street,.....	.....	26.73	.....	.....	.....	.....	26.73
Arch street,.....	.....	.....	.....	.....	.....	\$8.67	8.67
Armory street,.....	.....	96.60	.....	.....	.....	.....	96.60
Ashley street,.....	.....	6.47	.....	.....	.....	.....	6.47
Atwater terrace,.....	.....	109.74	.....	.....	.....	.....	109.74
Autumn street,.....	.....	27.91	.....	.....	.....	.....	27.91
Avon place,.....	.....	18.10	.....	.....	.....	.....	18.10
Bay street,.....	.....	14.88	.....	.....	.....	.....	14.88
Bay road,.....	1,183.39	.....	.....	.....	.....	.....	1,183.39
Barnes street,.....	.....	.....	\$25.62	.....	.....	.....	25.62
Belmont avenue,.....	.....	152.51	468.85	.....	.....	.....	621.36
Berkshire avenue,.....	.....	336.06	.....	.....	.....	.....	336.06
Berkshire avenue, I. O.,.....	879.28	118.41	.....	.....	.....	.....	1,094.61
Berkshire street, I. O.,.....	225.14	31.44	.....	.....	\$96.92	.....	256.58
Birnie avenue,.....	.....	166.32	.....	.....	.....	.....	166.32
Birnie avenue extension,.....	.....	76.39	.....	.....	.....	.....	76.39
Boston road,.....	392.90	.....	58.69	.....	.....	.....	451.59
Bridge street,.....	.....	19.27	20.06	.....	.....	.....	39.33
Broadway,.....	.....	428.39	.....	.....	.....	.....	428.39
Butler street,.....	.....	43.16	.....	.....	.....	.....	43.16
Cass street,.....	.....	192.92	.....	.....	.....	.....	192.92
Carew street,.....	1,848.34	.....	.....	.....	.....	.....	1,848.34

STREET MAINTENANCE.
REPAIRS.—Continued.

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Central street, . . . . .	.....	\$142.20	.....	.....	.....	.....	\$142.20
Charles street, . . . . .	.....	7.60	.....	.....	.....	.....	7.60
Chestnut street, . . . . .	.....	56.53	\$454.48	.....	.....	.....	511.01
Chicopee road, ...	\$54.40	.....	.....	.....	.....	.....	54.40
Clark street, . . . . .	.....	8.75	.....	.....	.....	.....	8.75
Clinton street, . . . . .	.....	7.67	.....	.....	.....	.....	7.67
Congress street, . . . . .	.....	9.33	.....	.....	.....	.....	9.33
Cooley street, ...	383.70	.....	.....	.....	.....	.....	383.70
Cottage street, ...	39.02	.....	.....	.....	.....	.....	39.02
Crane street, . . . . .	.....	93.99	.....	.....	.....	.....	93.99
Cross street, . . . . .	.....	13.45	.....	.....	.....	.....	13.45
Cypress street, . . . . .	.....	.....	51.89	.....	.....	.....	51.89
Dickinson street, . . . . .	.....	894.09	.....	.....	.....	.....	894.09
Driveway, east of City Hall, ...	267.91	.....	.....	.....	.....	.....	267.91
Dwight road, ...	19.48	.....	.....	.....	.....	.....	19.48
Eastern avenue, . . . . .	.....	22.29	.....	.....	.....	.....	22.29
East Court street, . . . . .	.....	.....	27.81	.....	.....	.....	27.81
Elm street, . . . . .	.....	.....	25.00	.....	.....	.....	25.00
Ferry street, . . . . .	.....	.....	55.25	.....	.....	.....	55.25
Florence street, . . . . .	.....	39.55	.....	.....	.....	.....	39.55
Forest avenue, ...	96.14	.....	.....	.....	.....	.....	96.14
Fort street, . . . . .	.....	48.54	.....	.....	.....	.....	48.54
Franklin street, . . . . .	.....	95.23	.....	.....	.....	.....	95.23
George street, . . . . .	.....	3.13	.....	.....	.....	.....	3.13

STREET MAINTENANCE.
REPAIRS.—Continued.

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Hampden street, ...		\$45.35	.....	.....	.....	.....	\$45.35
Hancock street, ...		24.59	.....	.....	.....	.....	24.59
Harrison avenue, ...			\$26.90	.....	.....	.....	26.90
Harvey street, ...	\$33.90	.....	.....	.....	.....	.....	33.90
Hawthorne street, ...		8.74	.....	.....	.....	.....	8.74
Hickory street, ...	49.20	.....	.....	.....	.....	.....	49.20
Hillman street, ...		61.07	.....	.....	.....	.....	61.07
Leonard street, ...		59.51	.....	.....	.....	.....	59.51
Liberty street, ...			680.19	.....	.....	.....	680.19
Linden street, ...		47.07	.....	.....	.....	.....	47.07
Long Hill street, ...		467.22	.....	.....	.....	.....	467.22
Lyman street, ...			221.02	.....	.....	.....	221.02
Magazine street, ...			184.34	.....	.....	.....	184.34
Main street, ...			1,661.56	.....	.....	.....	1,661.56
Main street, I. O., ...	433.55	.....	.....	.....	\$38.86	.....	598.65
Maple street, ...		126.24	.....	.....	.....	.....	362.66
Market street, ...		362.66	.....	.....	.....	.....	362.66
Massachusetts avenue, ...		49.54	.....	.....	.....	.....	49.54
Maynard street, ...		83.54	.....	.....	.....	.....	83.54
Middlesex street, ...		68.74	.....	.....	.....	.....	68.74
Mill street, ...		106.26	.....	.....	.....	.....	106.26
Mill street, ...		112.38	.....	.....	.....	.....	112.38
Mulberry street, ...		25.96	.....	.....	.....	.....	25.96
Myrtle street, I. O., ...	22.53	.....	.....	.....	.....	.....	22.53
North street, ...		150.22	85.09	.....	.....	.....	235.31
North Main street, ...			338.07	.....	.....	.....	338.07

STREET MAINTENANCE.
REPAIRS.—Continued.

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Oak street, . . . . .	.....	\$10.07	.....	.....	.....	.....	\$10.07
Oak street, I. O., ...	\$440.29	86.31	.....	.....	.....	.....	526.60
Page boulevard, ...	269.85	1,179.23	.....	.....	.....	\$256.44	1,705.52
Park street, . . . . .	.....	10.48	.....	.....	.....	.....	10.48
Parker street, I. O., ...	3,218.35	.....	.....	.....	\$388.04	.....	3,606.39
Pasco road, I. O., ...	1,376.23	.....	.....	.....	.....	.....	1,376.23
Pearl street, . . . . .	.....	.....	.....	.....	.....	.....	21.33
Plainfield street, . . . . .	.....	21.33	\$133.48	.....	.....	.....	133.48
Plum Tree road, ...	762.76	.....	.....	.....	.....	.....	795.62
Pyncheon street, . . . . .	.....	.....	27.78	.....	32.86	.....	27.78
Rumrill road, ...	305.41	.....	.....	.....	.....	.....	305.41
Sanford street, . . . . .	.....	.....	13.55	.....	.....	.....	13.55
School street, . . . . .	.....	14.80	.....	.....	.....	.....	14.80
Sharon street, . . . . .	.....	27.77	.....	.....	.....	.....	27.77
Shattuck street, . . . . .	.....	34.03	.....	.....	.....	.....	34.03
Shefford street, . . . . .	.....	74.12	.....	.....	.....	.....	74.12
Sherman street, . . . . .	.....	47.22	.....	.....	.....	.....	47.22
Sixteen Acre road, ...	278.62	.....	.....	.....	.....	.....	278.62
South Main street, . . . . .	.....	98.70	.....	.....	.....	.....	98.70
Spring street, . . . . .	.....	.....	132.40	.....	.....	.....	132.40
Springfield street, . . . . .	.....	33.15	.....	.....	.....	.....	33.15
State street, . . . . .	.....	28.63	520.31	.....	.....	.....	548.94
Stockbridge street, . . . . .	.....	9.60	.....	.....	.....	.....	9.60
Stony Hill road, ...	61.18	.....	.....	.....	.....	.....	61.18
St. James avenue, ...	39.02	18.67	47.99	.....	.....	.....	105.68

STREET MAINTENANCE.

REPAIRS.—*Concluded.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Summer street,.....	.....	.....	\$415.73	.....	.....	.....	\$415.73
Sumner avenue extension,.....	\$526.79	.....	.....	.....	.....	.....	526.79
Sundry streets,.....	161.09	\$11,169.09	.....	\$1,402.59	\$190.28	\$1,598.54	14,521.59
Sundry streets, I. O.,.....	505.03	1,343.77	.....	.....	71.65	.....	1,920.45
Taylor street,.....	.....	74.48	.....	.....	.....	.....	74.48
Temple street,.....	.....	9.58	.....	.....	.....	.....	9.58
Tenth street,.....	.....	8.53	.....	.....	.....	.....	8.53
Tinkham road,.....	537.20	.....	.....	.....	.....	.....	537.20
Trafton road,.....	24.00	.....	.....	.....	.....	.....	24.00
Union street,.....	.....	65.78	.....	.....	.....	.....	65.78
Vernon street,.....	.....	.....	21.38	.....	.....	.....	21.38
Walnut street,.....	.....	65.04	455.77	.....	.....	.....	520.81
Wason avenue,.....	.....	89.90	.....	.....	.....	.....	89.90
Water street,.....	.....	161.37	27.58	.....	.....	.....	188.95
Waverly street,.....	.....	50.33	.....	.....	.....	.....	50.33
Wellington street,.....	.....	46.35	.....	.....	.....	.....	46.35
West street,.....	.....	.....	.....	.....	112.13	.....	112.13
White street,.....	.....	.....	15.51	.....	.....	.....	15.51
Wilbraham avenue,.....	.....	26.40	.....	.....	.....	.....	26.40
Wilbraham road,.....	.....	9.79	.....	.....	253.36	.....	2,535.17
William street,.....	.....	.....	21.85	.....	.....	.....	21.85
Wolcott street,.....	.....	67.11	.....	.....	.....	.....	67.11
Worcester street, I. O.,.....	661.10	265.87	.....	.....	14.04	.....	971.01
Worthington street,.....	.....	120.26	327.47	.....	.....	.....	447.73
Totals,.....	\$21,252.90	\$20,478.31	\$6,545.62	\$1,402.59	\$1,198.14	\$1,863.65	\$52,741.21

GENERAL REPAIRS.

ASSESSABLE COST.

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Acushnet avenue,.....	\$13.89	....	\$13.89
Alden street,.....	11.25	....	11.25
Alexander street,.....	8.10	....	8.10
Allen street,.....	8.21	....	8.21
Arbor street,.....	2.94	....	2.94
Arch street,.....	1.81	....	1.81
Armory street,.....	39.05	\$88.23	127.28
Ashley street,.....	5.20	....	5.20
Auburn street,.....	4.49	....	4.49
Avon place,.....	2.75	....	2.75
Bancroft street,.....	4.78	....	4.78
Bartlett avenue,.....	2.56	....	2.56
Bay street,.....	7.52	....	7.52
Beech street,.....	3.59	....	3.59
Belmont avenue,.....	100.36	77.33	177.69
Benton street,.....	5.17	....	5.17
Birnie avenue,.....	39.31	....	39.31
Bloomfield street,.....	6.83	....	6.83
Bond street,.....	2.94	....	2.94
Bowles street,.....	2.66	....	2.66
Bridge street,.....	....	243.07	243.07
Broad street,.....	12.59	....	12.59
Buckingham street,.....	2.79	....	2.79
Calhoun street,.....	2.49	....	2.49
Cambridge street,.....	4.08	....	4.08
Carew street,.....	7.58	....	7.58
Catharine street,.....	....	47.92	47.92
Cedar street,.....	21.34	....	21.34
Central street,.....	38.54	....	38.54
Charles street,.....	58.75	....	58.75
Chester street,.....	3.55	....	3.55
Chestnut street,.....	....	32.45	32.45
Church street,.....	3.05	....	3.05
Clantoy street,.....	19.27	....	19.27
Clarendon street,.....	3.98	....	3.98
Clifford street,.....	12.38	....	12.38
Clifton avenue,.....	16.16	....	16.16
Clinton street,.....	45.93	....	45.93
Colton street,.....	3.40	....	3.40
Commonwealth avenue,.....	3.36	....	3.36
Congress street,.....	28.78	....	28.78
Cornell street,.....	2.31	....	2.31
Cortland street,.....	4.97	....	4.97
Crystal avenue,.....	3.20	....	3.20
Cypress street,.....	....	6.58	6.58
Dale street,.....	2.88	....	2.88

GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Dartmouth street,.....	\$10.15	....	\$10.15
Demond avenue,.....	3.39	....	3.39
Dickinson street,.....	2.57	....	2.57
Dorchester street,.....	3.50	....	3.50
Douglas street,.....	6.27	....	6.27
Dunmoreland street,.....	5.55	....	5.55
Dwight street,.....	....	\$67.50	67.50
Eastern avenue,.....	32.99	....	32.99
East Court street,.....	....	20.40	20.40
East Hooker street,.....	2.49	....	2.49
Elmwood street,.....	2.94	....	2.94
Essex street,.....	6.33	....	6.33
Euclid avenue,.....	43.44	....	43.44
Everett street,.....	4.52	....	4.52
Ferry street,.....	....	19.41	19.41
Firglade avenue,.....	4.92	....	4.92
Florence street,.....	1.83	....	1.83
Florida street,.....	12.38	....	12.38
Fort street,.....	12.83	....	12.83
Fort Pleasant avenue,.....	2,298.23	....	2,298.23
Forest Park avenue,.....	2.94	....	2.94
Franklin street,.....	8.81	....	8.81
Fremont street,.....	20.03	....	20.03
Gardner street,.....	5.86	....	5.86
Garfield street,.....	8.63	....	8.63
Grant street,.....	2.41	....	2.41
Granville street,.....	.30	....	.30
Green street,.....	4.96	....	4.96
Greenleaf street,.....	6.09	....	6.09
Grenada terrace,.....	1.81	....	1.81
Grove street,.....	7.83	....	7.83
Hampden street,.....	2.99	....	2.99
Hancock street,.....	39.99	....	39.99
Harrison avenue,.....	....	41.60	41.60
Harvard street,.....	4.33	....	4.33
Hawley street,.....	4.61	....	4.61
Hayden street,.....	2.94	....	2.94
Hiawatha street,.....	5.50	....	5.50
Hickory street,.....	....	7.19	7.19
High street,.....	8.44	....	8.44
Hillman street,.....	4.62	7.44	12.06
Homer street,.....	2.65	....	2.65
Hubbard avenue,.....	....	9.80	9.80
Hyde avenue,.....	2.54	....	2.54
Ingersoll Grove,.....	5.52	....	5.52
James street,.....	55.00	....	55.00

GENERAL REPAIRS

ASSESSABLE COST.—Continued.

Street.	Surface Paving.	Permanent Paving.	Total Cost.
John street,.....	\$3.23	....	\$3.23
Kenwood terrace,.....	2.47	....	2.47
Kibbe avenue,.....	6.22	....	6.22
King street,.....	16.35	\$5.81	22.16
Knox street,.....	7.05	....	7.05
Leete street,.....	20.04	....	20.04
Lenox street,.....	4.22	....	4.22
Liberty street,.....	....	72.85	72.85
Linden street,.....	3.22	....	3.22
Locust street,.....	7.37	47.28	54.65
Logan street,.....	29.74	....	29.74
Longhill street,.....	384.57	....	384.57
Lowell street,.....	6.82	....	6.82
Lyman street,.....	....	7.70	7.70
Magazine street,.....	....	18.15	18.15
Main street,.....	197.61	2,177.26	2,374.87
Main street, I. O.,.....	....	30.90	30.90
Manhattan street,.....	6.32	....	6.32
Maple street,.....	785.77	....	785.77
Mapledell street,.....	4.14	....	4.14
Maplewood terrace,.....	2.90	....	2.90
Marble street,.....	2.39	....	2.39
Margaret street,.....	21.13	....	21.13
Marion street,.....	6.80	....	6.80
Mason street,.....	16.80	....	16.80
Massasoit street,.....	3.73	....	3.73
Maynard street,.....	3.16	....	3.16
Mill street,.....	45.69	....	45.69
Monroe street,.....	2.65	....	2.65
Montrose street,.....	5.70	....	5.70
Morgan street,.....	1.53	....	1.53
Morris street,.....	3.12	....	3.12
Mulberry street,.....	11.60	....	11.60
Napier street,.....	4.49	....	4.49
Nelson street,.....	2.22	....	2.22
North street,.....	5.75	....	5.75
Northampton avenue,.....	5.45	....	5.45
North Main street,.....	....	761.74	761.74
Norwood street,.....	3.79	....	3.79
Oak Grove avenue,.....	3.04	....	3.04
Orange street,.....	9.23	....	9.23
Orchard street,.....	3.23	....	3.23
Osgood street,.....	3.05	....	3.05
Palmer avenue,.....	4.78	....	4.78
Patton street,.....	4.24	....	4.24
Pearl street,.....	5.77	....	5.77

GENERAL REPAIRS.

ASSESSABLE COST.—Continued.

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Pecousic avenue, ...	\$10.54	.....	\$10.54
Pendleton avenue, ...	15.70	.....	15.70
Phoenix street, ...	4.59	.....	4.59
Pine street, ...	48.72	.....	48.72
Plainfield street, . . . . .	.....	\$19.90	19.90
Princeton street, ...	8.93	.....	8.93
Queen street, ...	8.41	.....	8.41
Quincy street, ...	5.31	.....	5.31
Reed street, ...	2.94	.....	2.94
Riverview terrace, ...	4.19	.....	4.19
Sanford street, . . . . .	.....	13.05	13.05
Sargeant street, ...	3.82	.....	3.82
School street, ...	31.24	.....	31.24
Scott street, ...	4.80	.....	4.80
Sharon street, ...	8.71	.....	8.71
Sherman street, ...	2.78	.....	2.78
Silver street, ...	6.64	.....	6.64
Spring street, . . . . .	.....	39.91	39.91
Springfield street, ...	72.73	.....	72.73
State street, ...	11.38	3,954.32	3,965.70
Stebbins street, ...	2.17	.....	2.17
St. James avenue, ...	22.32	20.42	42.74
Summer street, . . . . .	.....	44.91	44.91
Summer avenue, ...	6,967.59	77.10	7,044.69
Talcott avenue, ...	7.21	.....	7.21
Taylor street, ...	9.41	26.65	36.06
Temple street, ...	2.18	.....	2.18
Tenth street, ...	40.49	.....	40.49
Thomas street, ...	1.99	.....	1.99
Thompson street, ...	7.40	.....	7.40
Tyler street, ...	30.02	.....	30.02
Union street, ...	35.88	.....	35.88
Ventura street, ...	3.52	.....	3.52
Vine street, ...	4.78	.....	4.78
Walnut street, ...	5.63	97.87	103.50
Walter street, ...	7.92	.....	7.92
Warner street, ...	2.90	.....	2.90
Warriner avenue, ...	2.82	.....	2.82
Washburn street, ...	6.82	.....	6.82
Washington road, ...	5.16	.....	5.16
Wason avenue, ...	65.59	.....	65.59
Water street, ...	18.64	28.63	47.27
Waverly street, ...	3.24	.....	3.24
Webster street, ...	13.95	.....	13.95
Westminster street, ...	10.82	.....	10.82
White street, ...	218.13	.....	218.13

GENERAL REPAIRS.

ASSESSABLE COST.—*Concluded.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Wilbraham avenue, ...	\$2.17	....	\$2.17
Wilbraham road, ...	11.30	\$59.96	71.26
Wilcox street, ...	61.75	....	61.75
Windsor street, ...	4.51	....	4.51
Woodside terrace, ...	2.94	....	2.94
Worcester avenue, ...	3.79	....	3.79
Worcester street, I. O., ...	8.47	....	8.47
Worthington street, ...	21.53	632.54	654.07
Yale street, ...	4.02	....	4.02
York street, ...	23.39	....	23.39
Totals, ...	\$12,797.18	\$8,805.87	\$21,603.05

SIDEWALKS AND CURBING.
CONSTRUCTION AND RECONSTRUCTION.
BY ORDER OF THE CITY COUNCIL.

Street.	Sidewalks.		Length in feet.	Curbing Length in feet.		Order Approved.
	Material.	Description.		4"	6"	
Abbe avenue (Plainfield to river),...	.....	.....	.....	894	.....	April 24, 1917.
*Berkshire avenue (Pine Point to Bay street),.....	.....	.....	.....	1,341	.....	July 17, 1917.
College street (extension to Acorn),...	.....	.....	.....	1,672	.....	Aug. 6, 1917.
*Clinton street (Main to Fulton),...	Concrete,...	New,.....	699	.....	.....	Sept. 13, 1916.
Clyde street (Plainfield easterly),...	.....	.....	.....	851	.....	June 4, 1917.
Dunmoreland street (Westford circle to King),.....	.....	.....	.....	1,118	.....	June 11, 1917.
Dwight street (Lyman to State),.....	Concrete, ..	New,.....	3,127	.....	.....	Mar. 11, 1918.
Eastern avenue (Wilbraham road to Hickory),.....	Brick,.....	Old & New,.....	189	.....	.....	May 14, 1917.
†Fulton street (Cypress to Auburn),...	Concrete,...	New,.....	360	.....	.....	May 26, 1914.
Hamburg street (extension to Silver),...	.....	.....	.....	240	.....	June 4, 1917.
Harrison avenue (Dwight to Chestnut),.....	Concrete,...	New,.....	22	.....	.....	Nov. 18, 1918.
Randall street (Liberty to Phoenix terrace),.....	.....	.....	.....	.....	.....	.....
Kibbe Hollow,.....	Brick,.....	Old,.....	375	1,223	.....	July 17, 1917.
*†King street (No. 270 to Wilbraham avenue),.....	.....	.....	.....	.....	.....	.....
Longhill street (Main to Warner),...	.....	.....	.....	97	.....	Sept. 10, 1917.
Longhill street (Summer avenue to Washington boulevard),.....	.....	.....	.....	2,464	.....	Oct. 10, 1917.
Malden street (Allen to Grand),.....	.....	.....	.....	379	.....	May 28, 1917.
Marshall street (Walnut to Eastern avenue),.....	Concrete,...	New,.....	101	1,698	.....	Oct. 1, 1917.
.....	.....	.....	.....	1,598	.....	Dec. 19, 1916.

SIDEWALKS AND CURBING.
CONSTRUCTION AND RECONSTRUCTION.
BY ORDER OF THE CITY COUNCIL.—Concluded.

Street.	Sidewalks.		Length in feet.	Curbing Length in feet.		Order Approved.
	Material.	Description.		4"	6"	
Melrose street (Marshall to Melrose),	.....	.....	.....	72	.....	Dec. 19, 1916.
Moore avenue (Plainfield to river),	.....	.....	.....	1,331	.....	Oct. 9, 1917.
†Noel street (Mill to Oakland),	.....	.....	.....	32	.....	June 18, 1917.
North street (Calhoun to Harriet),	Concrete,	New,	567	.....	.....	June 14, 1916.
Pearl street (Spring to Byers),	.....	.....	.....	225	.....	May 7, 1918.
Plainfield street (Bradford to Sar- geant),	Concrete,	New,	205	.....	.....	Oct. 24, 1916.
Silver street (extension to Hamburg),	.....	.....	.....	722	.....	June 4, 1917.
Spring street (corner Spring to Pearl),	.....	.....	.....	32	.....	Dec. 12, 1916.
Springfield street (Chestnut to Shet- ford),	.....	.....	.....	.....	1,658	Dec. 12, 1916.
Springfield street (Chestnut to At- water terrace),	Concrete,	New,	297	.....	.....	July 22, 1918.
†Sumner avenue (R. R. to Edgeland avenue),	.....	.....	.....	221	.....	June 20, 1917.
†Water street (Whitney place to William street),	Brick,	New,	429	.....	.....	July 14, 1914.
Wilbraham road (Wilbraham avenue to Waltham avenue),	Concrete,	New,	60	.....	.....	Oct. 1, 1917.
William street (Water to R. R.),	.....	.....	.....	263	.....	Dec. 19, 1916.
Totals,	.....	.....	6,431	16,473	1,658	

*Work incomplete.

†Completion of work done previous to 1918.

REPORT
OF THE
SEWER DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1918.

Mr. Robert P. Marsh, Superintendent of Streets and Engineering.

DEAR SIR:—I herewith submit a description of the work done by the Sewer Division, Department of Streets and Engineering, during the year ending November 30, 1918.

GENERAL DESCRIPTIONS.

The total expenditures for new sewer construction and reconstruction during the year amounted to \$48,064.08. Deducting the cost of sewers abandoned, amounting to \$989.51, leaves \$47,074.57 to be added to the value of the sewer system as of November 30, 1917.

The total value of the system on November 30, 1918, was accordingly \$1,878,048.85, and embraced a total of 152 miles of sewers in the care of this department.

The amount expended in repairs to the system was \$5,911.78; in cleaning, \$5,590.75; and in flushing the same, \$4,746.16. As usual all sewer construction during the year has been done directly by this division.

The receipts from entrances, exclusive of the fees on account of building private drains, amounted to \$4,161.41, and the number of connections made to buildings during the year was 87, which is the smallest number in many years and is a result of the suspension of building operations due to the war.

The length of pipe sewers laid during the year was 8,588 feet; concrete, 1,468 feet; and segment blocks, 865 feet.

The small amount of new construction work accomplished by the Sewer Division this year was due to the unusual conditions prevailing as a result of the war. The shortage of labor has prevented the carrying out of any extensive construction and the new sewers built were all that could be

completed with the labor available. We have, however, been able to keep up the necessary maintenance work. Repairs, cleaning, and flushing have been carried on as demand required to keep the system up to the usual standard. The continually increasing size of the system, now over 150 miles in length, demands a considerable amount of care and labor to keep the same in good working condition at all times.

A large proportion of the new sewers built this year have been in connection with the storm-water system, to drain the Gunn square section lying east of the N. Y., N. H. & H. R. R., between Wilbraham road and King street. This system is now complete and affords relief for a section of the city which has been sadly in need of surface water drainage. Another section much in need of similar relief is that lying between State street and Bay street, east of the N. Y., N. H. & H. R. R., to Carlisle brook. This section, now built up, is badly in need of a proper storm-water drainage system, the present sewers in this locality being entirely inadequate to properly take care of surface water during heavy showers.

There have been no complaints of water backing into and flooding cellars in the business section during the year, but a recurrence of storms similar to those of the summer of 1917 would undoubtedly cause damage and result in a renewed demand for relief of this section by the construction of storm-water overflow sewers direct to the river, between the Arch and State street.

Sanitary sewers have been built for the section known as East Springfield but no surface water drainage has been provided, and there is much need for such a system there.

With the return of normal labor conditions it is hoped that the Sewer Division will be able to undertake at least a part of the work necessary to relieve the sections referred to.

We have had less than the usual amount of trouble with the old cement pipe sewers during the past year. This is undoubtedly due to the policy, pursued for several years, of replacing them with modern materials as soon as weakness developed. There are some 21 miles still in service, some of which need constant watching and should be replaced as rapidly as possible.

It gives me pleasure to acknowledge the hearty co-operation of the engineers and foremen of this division and to thank you for the support and courtesies at all times received from you.

Respectfully submitted,

HOWARD O. BUCK,
Deputy Superintendent of Sewers.

SEWER CONSTRUCTION AND RECONSTRUCTION.

DESCRIPTION AND COSTS—FISCAL YEAR 1918.

Location.	Material	Length in feet.	Size.	Total Cost.
Banks place, Water street westerly,....	Clay	235	10"	\$791.96
Beverly street, from Northampton to Wilbraham avenue, stormwater,....	Clay	250	12"	539.39
Blaine street, extension easterly of Brunswick street,.....	Clay	149	15"	402.21
Carew street, extension easterly,.....	Clay	459	10"	609.38
Carlton street, Woodlawn street westerly,.....	Clay	264	12"	683.26
Caseland street, Shefford to Armory street, relaying,.....	Con.	270	4'6"x 3'0" Elliptical	3,563.54
Cherrellyn avenue, extension southerly,...	Clay	50	10"	71.01
Cherryvale avenue, Florentine Gardens southerly, relaying,.....	Clay	195	10"	487.94
Dunmoreland street, Westford circle southerly, stormwater,.....	Clay	276	10"	672.35
Eldredge street, extension southerly,...	Clay	265	10"	333.95
Gunn square, Westford avenue westerly, sanitary,.....	Clay	290	10"	343.09
Kibbe Hollow, Worthington street southerly,.....	Clay	144	15"	324.32
King street, Massachusetts avenue easterly, stormwater,.....	Clay	248	10"	278.75
King street, Massachusetts avenue westerly, stormwater,.....	Clay	243 84	12" 10" }	511.85
King street, Northampton to Wilbraham avenue, stormwater,.....	Clay	221	20"	922.15
Massachusetts avenue, Westford circle southerly, stormwater,.....	Clay	366 238	18" 24" }	1,897.00
North street, Ringgold to Morgan street, relaying,.....	Clay	198	18"	876.47
Northampton avenue, Gunn square to Beverly street, stormwater,.....	Clay	185 173	12" 18" }	1,168.89
Northampton avenue, Gunn square southerly, sanitary,.....	Clay	459	8"	484.87
Northampton avenue, Gunn square to King street, stormwater,.....	Clay	313 322	24" 20" }	2,411.85
Norwood street, Main street westerly, relaying,.....	Clay	178	12"	930.45
Porter avenue, extension northerly,....	Clay	234	10"	701.34
Shefford street, Springfield to Caseland street,.....	Con.	399	4'9"x 3'2" Elliptical	4,928.50

SEWER CONSTRUCTION AND RECONSTRUCTION.—*Concluded.*

Location.	Material	Length in feet.	Size.	Total Cost.
Spruceland street, Beechwood street westerly, relaying, ...	Clay	300	10"	\$527.06
Spruceland street, Beechwood street easterly, relaying, ...	Clay	240	10"	395.58
Van Horn place, extension northerly, ...	Clay	149	10"	313.53
Washington road, Pineywoods avenue northerly, relaying, ...	Clay	38	10"	109.62
Westford avenue, Gunn square southerly, stormwater, ...	Clay	112	12"	164.52
Westford circle, Westford avenue southeasterly to Westford circle, sanitary sewer, ...	Clay	194	12"	301.11
Westford circle, Albemarle street to Northampton avenue, stormwater completion, ...	Con.	39	3'0" cir.	455.91
Westford circle, Albemarle street to Northampton avenue, stormwater completion, ...	Seg. Blk.	602	2'6" cir.	6,012.80
	Seg. Blk.	263	3'0" cir.	
Wilbraham avenue, King street southerly, stormwater, ...	Clay	318	12"	707.63
Wilbraham avenue, King street northerly, stormwater, ...	Clay	299 270	18" 12" }	1,596.36
Wilbraham avenue, Beverly street southerly, stormwater, ...	Clay	117	10"	251.60
Wilbraham avenue, Beverly street northerly, stormwater, ...	Clay	262	10"	512.68
Woodlawn street, Belmont avenue westerly to Carlton street, ...	Con.	760	2'4" x 3'6" Egg shape	5,967.03
Worcester street, I. O., in Worcester street and across private land near B. & A. R. R. Bridge, stormwater, ...	Clay	250	18"	906.76
Total sewer construction, 1918, ...				\$42,156.71

The costs of the above described sewers include the costs of manholes, wellholes and flush gates.

CONSTRUCTION—MANHOLES.

Location.	Total Cost.	Unit Cost.
Alden street,.....	\$81.36	
Alfred street,.....	75.96	
Allen street (three),.....	221.15	\$73.72
Amherst street,.....	72.98	
Auburn street,.....	116.96	
Cherry street,.....	80.28	
Cortland street,.....	103.18	
East Hooker street,.....	71.22	
Edwards street,.....	90.48	
Essex street,.....	79.38	
Euclid avenue,.....	4.14	
Firglade avenue (two),.....	155.22	77.61
George street,.....	91.87	
Holyoke street,.....	109.41	
Jefferson avenue,.....	91.26	
Kensington avenue (two),.....	240.15	120.08
Kenwood Park (two),.....	121.84	60.92
Lafayette street,.....	69.24	
Leyfired terrace,.....	83.78	
Merwin street,.....	52.25	
Oakland street,.....	52.22	
Portsmouth street,.....	87.29	
Rutledge avenue,.....	76.97	
Seventh street (two),.....	195.80	97.90
Springfield street,.....	70.75	
Thompson street (two),.....	137.34	68.67
Walden street,.....	79.53	
Wendell avenue,.....	87.07	
Wilbraham avenue,.....	96.43	
Whitney avenue,.....	61.39	
William street (two),.....	149.30	74.65
Wilmont street (two),.....	209.14	104.57
Winchester street,.....	73.68	
Total,.....	\$3,389.00	

CONSTRUCTION—WELLHOLES.

Location.	Total Cost.	Unit Cost.
Allen street (three),.....	\$67.62	\$22.54
Avon place (four),.....	56.77	14.19
Crane street (three),.....	102.22	34.07
Everett street (two),.....	29.52	14.76
Hastings street (three),.....	64.84	21.61
Kendall avenue (ten),.....	241.76	24.18
Laurel avenue,.....	111.44	.....
Liberty street (eight),.....	325.58	40.70
Longhill street (four),.....	133.45	33.36
Main street, I. O. (three),.....	104.56	34.85
Moore avenue (five),.....	185.06	37.01
Oakland street (three),.....	88.94	29.65
Patton street,.....	42.70	.....
Phoenix terrace (six),.....	139.93	23.32
Saratoga street (two),.....	85.72	42.86
Sherman avenue,.....	23.40	.....
Stockman street (two),.....	43.86	21.93
Sumner avenue (seven),.....	273.36	39.05
Westford avenue (four),.....	91.09	22.77
Worthington street,.....	34.98	.....
Total,.....	\$2,246.80	

CONSTRUCTION—FLUSH GATES.

Location.	Total Cost.	Unit Cost.
Armory street,.....	\$13.30	.....
Bartlett street,.....	9.73	.....
Biltmore street,.....	38.77	.....
Bliss street,.....	38.65	.....
Chestnut street,.....	5.35	.....
Court street,.....	7.60	.....
New street,.....	68.80	.....
Prospect street,.....	2.74	.....
Virginia street,.....	39.31	.....
Wendell street,.....	47.32	.....
Total,.....	\$271.57	

SEWER CONSTRUCTION CLASSIFIED.

VITRIFIED CLAY PIPE.

Sizes.	LENGTH IN FEET.		Total Length.
	New Construction.	Reconstruction.	
8"	459	...	459'
10"	2,669	773	3,442'
12"	1,836	178	2,014'
15"	293	...	293'
18"	1,068	198	1,266'
20"	543	...	543'
24"	551	...	551'
Total,	7,439	1,149	8,588'

CONCRETE.

Sizes.	LENGTH IN FEET.		Total Length.
	New Construction.	Reconstruction.	
4'-6" x 3'-0" elliptical,	55	215	270'
4'-9" x 3'-2" elliptical,	369	30	399'
3'-0" circular,	39		39'
2'-4" x 3'-6" egg shaped,	760		760'
Total,	1,223	245	1,468'

SEGMENT BLOCK.

Sizes.	LENGTH IN FEET.		Total Length.
	New Construction.	Reconstruction.	
3'-0" circular,	263		263'
2'-6" circular,	602		602'
Total,	865		865'

ABANDONED SEWERS—1918.

Location.	Material.	Length in feet.	Size.	Cost.
Caseland street, Shefford to Armory,.....	Clay	215	10"	\$215.00
Cherryvale avenue, Spruceland southerly,.....	Clay	195	8"	.....
North street, Ringgold to Morgan Cem.	Cem.	198	18"	356.84
Norwood street, Main westerly,....	Cem.	178	12"	195.80
Shefford street, Caseland northerly,.....	Clay	30	10"	26.83
Spruceland street, Beechwood easterly,.....	Clay	240	8"	195.04
Spruceland street, Beechwood westerly,.....	Clay	300	8"	.....
Washington road, Sumner avenue southerly,.....	Clay	38	8"	.....
Total,.....		1,394		\$989.51

SUMMARY.

Description.	Length in feet.	Cost.
Clay pipe sewers built by regular appropriation,.....	8,588	\$21,228.93
Concrete sewers built by regular appropriation,.....	1,468	14,459.07
Segment block sewers built by regular appropriation, ..	865	6,468.71
Flush gates, manholes and wellholes built by regular appropriation and added to cost of sewer system,...		5,907.37
Sewers abandoned, ...	10,921 1,394	\$48,064.08 989.51
Changes in lengths not previously reported, net addition, ...	9,527 106	\$47,074.57
Totals to be added to sewer system, ...	9,633	\$47,074.57

SEWER CLEANING AND REPAIRS.

	COST OF	
	Cleaning.	Repairs.
Abbe avenue,.....	.....	\$27.11
Acushnet avenue,.....	.....	107.51
Adams street,.....	.....	108.54
Albany street,.....	\$8.72	25.01
Alden street,.....	.....	6.09
Alfred street,.....	.....	120.29
Allen street,.....	.....	37.94
Amherst street,.....	.....	17.47
Andrew street,.....	38.28	.....
Arch street,.....	.....	30.13
Ardmore street,.....	10.89	.....
Armory street,.....	.....	40.37
Ashley street,.....	.....	7.91
Atwater terrace,.....	.....	2.23
Bancroft street,.....	.....	30.46
Bartlett street,.....	.....	1.60
Bay street,.....	22.00	8.93
Beaumont street,.....	.....	27.24
Belle avenue,.....	.....	13.15
Belmont avenue,.....	.....	12.74
Berkshire street, I. O.,.....	.....	21.34
Birnie avenue,.....	.....	13.17
Bliss street,.....	.....	6.24
Bloomfield street,.....	.....	10.03
Bridge street,.....	.....	16.95
Bristol street,.....	.....	8.18
Broad street,.....	.....	92.42
Butler street,.....	.....	8.35
Carew street,.....	60.50	9.24
Carlisle street,.....	52.19	.....
Cass street,.....	.....	67.27
Catharine street,.....	.....	20.32
Central street,.....	.....	34.17
Chapel street,.....	.....	10.03
Cherry street,.....	.....	14.21
Chestnut street,.....	15.04	54.02
Cleveland street,.....	.....	136.19
Clifton avenue,.....	.....	20.37
Cliftwood street,.....	13.88	.....
Clyde street,.....	.....	36.68
College street,.....	.....	31.34
Colonial avenue,.....	56.16	.....
Colton street,.....	.....	6.37
Commonwealth avenue,.....	.....	11.59
Cornell street,.....	26.55	.....
Cortland street,.....	.....	21.37
Crane street,.....	.....	3.05
Cross street,.....	.....	6.66

SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Crystal avenue, ...	\$13.10	.....
Demond avenue, ...		\$72.69
Dickinson street, ...	122.55	45.67
Donald street, ...	4.48	.....
Dorchester street, ...		31.84
Dunmoreland street, ...		17.54
Dwight road, ...		16.09
Dwight street, ...		9.26
Eagle street, ...		8.80
Eastern avenue, ...		2.23
East Springfield sewer, ...	109.56	.....
Emery street, ...		3.08
Essex street, ...		61.34
Essex street, I. O., ...		2.61
Euclid avenue, ...	20.82	.....
Everett street, ...		11.05
Fairfield street, ...		10.03
Federal street, ...		51.48
Firglade avenue, ...	11.80	15.57
Fisk avenue, ...		170.87
Florence street, ...	17.93	18.07
Forest street, ...		5.87
Forest Park avenue, ...	48.39	111.92
Fort Pleasant avenue, ...	50.60	103.57
Franklin street, ...		26.50
Fremont street, ...		39.82
Fulton street, ...		15.84
Garden brook sewer, ...	1,466.38	15.97
Gardner street, ...		39.48
Garfield street, ...		2.02
Genesee street, ...		54.27
George street, ...	53.92	.....
Governor street, ...		11.58
Greenwood street, ...		38.79
Grenada terrace, ...		6.18
Grosvenor street, ...		9.26
Gunn square, ...		9.26
Hall street, ...	21.40	.....
Hampden street, I. O., ...		2.66
Hampshire street, I. O., ...	54.90	.....
Hancock street, ...		10.78
Harriet street, ...		25.26
Harrison avenue, ...	27.32	.....
Hastings street, ...		2.76
High street, ...	17.35	.....
Hillman street, ...	44.01	.....
Holly street, I. O., ...		2.85
Hubbard avenue, ...		19.86

SEWER CLEANING AND REPAIRS.—Continued.

	COST OF	
	Cleaning.	Repairs.
Ingraham avenue,.....		\$34.73
Irvington street,.....		10.03
James street,.....		35.67
John street,.....		39.11
Johnson street,.....		27.99
Keith street,.....		22.33
Kensington avenue,.....		9.30
Kenwood Park,.....	\$52.76	110.13
King street,.....		6.23
Lawndale street,.....		.67
Lebanon street,.....	161.96	
Leete street,.....		11.29
Leonard street,.....		10.58
Leyfred terrace,.....		40.25
Liberty street,.....		74.51
Lillian street,.....		6.19
Longhill street,.....		50.25
Loring street,.....	91.32	
Lowell street,.....	16.03	
Lyman street,.....		73.84
Madison avenue,.....		6.96
Magnolia terrace,.....	28.52	
Main street,.....	1,198.91	141.30
Main street, I. O.,.....	11.40	45.08
Malden street,.....		28.16
Maple street,.....		14.42
Maplewood terrace,.....		134.88
Marble street,.....		6.82
Marengo Park,.....		6.48
Margaret street,.....	31.23	5.15
Marion street,.....		6.78
Massasoit street,.....		35.61
Maynard street,.....	49.67	
Mill river intercepting,.....		77.96
Mill street,.....		19.04
Montrose street,.....	39.72	4.57
Moore avenue,.....		9.26
Morris street,.....		46.32
Mulberry street,.....		41.64
Murray Hill avenue,.....		2.23
New street,.....	20.82	
Newbury street,.....		20.06
Norfolk street,.....		8.63
Northampton avenue,.....	52.56	30.56
North Main street,.....	89.37	43.35
Norwood street,.....		26.54
Oak street,.....		49.67
Oak Grove avenue,.....		9.34

SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Oakland street,.....	.....	\$22.25
Olive street,.....	\$31.23	.....
Orleans street,.....	.....	53.21
Ozark street,.....	.....	10.03
Palmer avenue,.....	.....	53.18
Park street,.....	22.73	.....
Parker street, I. O.,.....	.....	2.83
Parkwood street,.....	.....	13.89
Patton street,.....	.....	17.70
Pearl street,.....	.....	101.16
Pease street,.....	.....	14.54
Pendleton avenue,.....	69.99	.....
Pine street court,.....	.....	5.38
Plainfield street,.....	.....	9.04
Portland street,.....	.....	22.45
Princeton street,.....	35.40	.....
Prospect street,.....	.....	1.22
Pynchon street,.....	75.17	3.30
Ranney street,.....	.....	17.24
Redlands street,.....	.....	8.34
Richelieu court,.....	.....	2.02
Rutledge avenue,.....	.....	12.68
Sanford street,.....	23.29	.....
School street,.....	.....	23.76
Seventh street,.....	.....	11.68
Sharon street,.....	7.28	47.43
Sherman street,.....	.....	102.66
Spring street,.....	6.94	32.95
Springfield street alley,.....	.....	85.83
Springfield street,.....	.....	82.50
Spruceland avenue,.....	37.98	72.56
State street,.....	152.74	124.36
Stearns Park,.....	.....	12.09
St. James avenue,.....	.....	40.78
Summer street,.....	.....	65.92
Summit street,.....	.....	5.15
Sumner avenue,.....	59.31	83.33
Sumner terrace,.....	.....	10.20
Sunapee street,.....	.....	3.16
Sundry streets,.....	274.29	.....
Sylvan avenue,.....	.....	6.88
Talcott avenue,.....	.....	7.02
Tenth street,.....	53.10	36.28
Thompson street,.....	.....	11.44
Union street,.....	.....	39.00
Vassar street,.....	6.94	.....
Ventura street,.....	.....	9.39
Vermont street,.....	35.64	.....

SEWER CLEANING AND REPAIRS.—*Concluded.*

	COST OF	
	Cleaning.	Repairs.
Vernon street, .....	.....	\$52.59
Vinton street, .....	.....	7.00
Walnut street, .....	.....	78.99
Waltham avenue, .....	.....	6.40
Warriner avenue, ...	\$50.23	.....
Washington road, ...	58.64	.....
Wason avenue, ...	48.30	18.98
Water street, .....	.....	39.59
Webster street, .....	.....	28.38
Wellington street, .....	.....	2.53
Wendell avenue, .....	.....	11.92
White street, ...	117.54	.....
Whitney avenue, .....	.....	2.95
Wilbraham avenue, ...	18.85	.....
Wilbraham road, .....	.....	38.76
Wilcox street, ...	134.20	19.21
Willard avenue, .....	.....	33.75
William street, ...	17.35	13.70
Windsor street, .....	.....	14.66
Winthrop street, .....	.....	33.68
Woodside terrace, .....	.....	37.02
Worthington street, ...	20.82	395.82
York street, .....	.....	20.20
Totals, ...	\$5,590.75	\$5,911.78

CITY OF SPRINGFIELD,

SEWER SYSTEM TABULATED TO DECEMBER 1, 1918.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Abbe ave., Fisk ave., west- erly.....	301 275 300	15" 12" 18"	Clay Clay Clay	\$520.45
Plainfield st., westerly...	300 301 200	15" 12" 10"	Clay Clay Clay	1,446.64
				\$1,967.09
*Acorn st., Sycamore to Edgewood st.....	276	10"	Clay	176.64
Acushnet ave., Main st., easterly.....	294 279 271 26	20" 18" 15" 12"	Clay Clay Clay Clay	298.94
Adams st., Main to Ash- mun st.....	294 245 323 221	20" 18" 15" 12"	Clay Clay Clay Clay	3,322.93
Richelieu st., westerly...	237	12"	Clay	304.12
				3,627.05
Albany st., Armory st., easterly.....	1,083 478 445	5'-0" cir. 4'-3" cir. 3'-9" cir.	Con. Con. Con.	19,645.30
Albemarle st., Wilbraham road, southerly.....	300 314 421	15" 12" 10"	Clay Clay Clay	1,098.28
*Westford circle, north- erly.....	564	10"	Clay	499.51
*Gunn Square brook to Westford circle.....	329	12"	Clay	333.56
*Gunn Square brook to King st.....	259	10"	Clay	268.14
†From sewer across pri- vate land northerly to Westford circle.....	295	3'-0" cir.	Con.	3,477.08
				5,676.57
Alden st., Hancock st. to Eastern ave.....	595 820	18" 15"	Cem. Cem.	1,861.38
Eastern ave. to Wilbra- ham ave.....	895	15"	Clay	995.10
Wilbraham ave. to Hick- ory st.....	499	10"	Clay	332.22
				3,188.70
Alderman st., Dickinson to Scott st.....	296 304 300 443	18" 15" 12" 10"	Clay Clay Clay Clay	1,269.59

*Sanitary sewers. †Storm water.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Alexander st., North st., easterly.....	288	10"	Clay	\$188.48
Alfred st., Birnie ave., east- erly.....	377	10"	Clay	75.96
Allen ave., Allen st., easterly	338	10"	Clay	232.73
Allen st., Mill river to Oak- land st.....	216	24"	Clay	\$576.86
Mill to Oakland st.....	365	10"	Clay	447.19
Oakland st. to Plumtree road.....	686	24"	Clay	1,832.06
	383	18"	Clay	1,782.09
	474	15"	Clay	
	580	12"	Clay	
	1,603	12"	Clay	
	1,401	10"	Clay	1,024.18
				1,132.05
				6,794.43
Allendale st., North st., easterly.....	272	12"	Clay	401.43
	340	10"	Clay	
Amaron st., State st., southerly.....	349	10"	Clay	238.78
Amherst st., Harvard st., northerly.....	441	12"	Cem.	146.99
	25	10"	Clay	23.78
Princeton to Monmouth st.....	512	12"	Clay	695.88
	191	10"	Clay	
				866.65
Andrew st., State st., northerly.....	463	20"	Clay	1,858.75
	422	18"	Clay	
	382	12"	Clay	
Applewood place, Belmont ave., northerly.....	469	10"	Clay	391.81
Arbor st., Butler to Carew st.....	398	12"	Clay	318.05
Arch st. (see Garden brook)				
*Ardmore st., Page boulev- ard to Bowles park..	1,486	10"	Clay	1,636.18
Armory hill sewer (see pri- vate ways).				
Armory st., Worthington st., southerly.....	570	15"	Cem.	754.98
	199	12"	Clay	495.91
	374	12"	Clay	384.78
Summer st., southerly....	325	10"	Clay	193.87
	690	15"	Clay	1,187.41
B. & A.R.R. to Liberty st.	360	12"	Clay	
	271	10"	Clay	
	450	1'-10"x2'-0"	Brick	
Liberty to Sullivan st....	476	1'-8"x2'-8"	Brick	2,439.42

* Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Sullivan to Carew st.	156	24"	Clay	\$1,051.29
	267	20"	Clay	
	290	12"	Clay	
Carew st., northerly	452	20"	Clay	1,255.27
	803	10"	Clay	
Springfield st., southerly..	31	20"	Clay	358.92
	146	18"	Clay	
				\$8,121.85
Ashley st., Cedar st., east- erly.....	65	18"	Cem.	80.45
	580	15"	Cem.	1,555.00
	697	12"	Cem.	
				1,635.45
Ashmont st., Belmont ave., northeasterly.....	250	12"	Clay	351.57
	200	10"	Clay	
Ashmun st., Adams st., southerly.....	176	10"	Clay	350.48
Athol st., Milford st. to Chicopee line.....	600	15"	Clay	1,300.71
	310	12"	Clay	
Atwater terrace, Spring- field st., northerly.....	1,020	18"	Clay	1,469.45
Atwater road, Greene lane, westerly.....	322	20"	Clay	....
	199	18"	Clay	
Auburn st., Fulton st., easterly.....	397	12"	Clay	772.02
	335	10"	Clay	
Austin st., State st., north- erly.....	363	10"	Clay	334.91
Autumn st., Summer to Worthington st.....	239	15"	Clay	715.29
Avon place, Maple st., easterly.....	695	24"	Clay	3,451.49
Banbury st., Stockman st., southerly.....	234	10"	Clay	188.81
Bancroft st., Garden brook to Chestnut st.....	1,361	3'-4"x5'-0"	Brick	8,914.04
including Chestnut st., Bancroft to Montmo- rency st.....	379	3'-2"x4'-9"	Brick	
Montmorency st., Chest- nut st., easterly.....	43	3'-2"x4'-9"	Brick	
Banks place, Water st., westerly.....	235	10"	Clay	791.96
Bartlett st., Massasoit place, northerly.....	235	10"	Clay	342.03
Baxter ave., Woodbine ave., westerly.....	300	10"	Clay	325.61
	250	15"	Clay	
Bay st., St. James ave. to Pleasant st.....	245	12"	Clay	715.01
	228	10"	Clay	
Florida to Pleasant st....	235	12"	Clay	321.02

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Material	Cost
Florida to Sherman st....	304	20"	Clay }	\$1,092.89
	377	18"	Clay }	
	812	15"	Clay }	
Sherman to Clarendon st.	151	8"	Cem.	945.16
Catharine to Clarendon st.	194	10"	Clay	46.82
Bowles to Cambridge st.	1,037	2'-8"x4'-0"	Brick }	200.66
	360	2'-2"x3'-3"	Brick }	8,290.44
Cambridge to Sycamore st.	332	24"	Clay }	1,348.03
	360	20"	Clay }	
				\$12,960.03
Bay st., I. O., Main to Lowe st.....	439	10"	Clay	786.38
Beacon st., Eastern ave. to Colton st.....	250	10"	Clay	179.24
Colton st., easterly.....	106	8"	Clay	75.08
				254.32
Beaudry st., I. O., Main st., southerly.....	300	12"	Clay }	745.95
	270	10"	Clay }	
Beaumont st., Belmont ave., northerly.....	250	12"	Clay }	403.87
	431	10"	Clay }	
Belmont ave. to Sumner ave.....	264	10"	Clay	183.91
				587.78
Beaumont terrace, Beau- mont st., easterly.....	271	10"	Clay	298.12
Beech st., Central st., northerly.....	427	10"	Cem.	124.37
Beechwood ave., Sumner to Spruceland ave.....	595	12"	Clay	19.09
Belgrade place, Walnut st., westerly.....	220	8"	Clay }	33.88
	140	6"	Clay }	
Belle ave., Chestnut st., easterly to Cass st.....	544	24"	Clay }	2,951.54
	300	15"	Clay }	
	280	12"	Clay }	
	250	10"	Clay }	
Bellevue ave., Belmont ave., easterly.....	300	18"	Clay }	....
	300	15"	Clay }	
	194	12"	Clay }	
Dickinson st., westerly...	744	10"	Clay	30.67
				30.67
Belmont ave., Fort Pleas- ant ave., easterly.....	90	10"	Clay	93.92
Mill river to Woodside ter.	954	20"	Clay	2,713.44
Woodside ter. to Litchfield	660	2'-0"x3'-0"	Brick }	11,978.81
	445	1'-10"x2'-9"	Brick }	
	595	1'-8"x2'-6"	Brick }	
	550	1'-6"x2'-3"	Brick }	

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Litchfield st. to Kenwood Park.....	432	20"	Clay	\$1,682.59
Kenwood Park to Sumner ave.....	493	18"	Clay	
	301	15"	Clay	901.28
	403	12"	Clay	
	616	10"	Clay	
*Sumner ave. to Wood- lawn st.....	830	3'- 4"x5'-0"	Brick	8,216.97
	819	3'- 0"x4'-6"	Brick	
	245	3'- 0"x4'-6"	Br.C.	3,470.41
	416	2'-10"x4'-3"	Br.C.	
*Woodlawn to White st..	1,637	2'-10"x4'-3"	Con.	7,237.33
				<u>\$36,294.75</u>
Belmont place, Belmont ave., southerly.....	216	10"	Clay	192.92
Belvidere st., Belmont ave. to Blake st.....	300	20"	Clay	2,322.42
	362	18"	Clay	
	318	15"	Clay	
	330	12"	Clay	
Benton place, Benton st., easterly.....	300	10"	Clay	360.43
	325	8"	Clay	
Benton st., State st., south- erly.....	301	12"	Clay	513.96
	300	10"	Clay	
	247	8"	Clay	419.68
	320	8"	Clay	
				<u>933.64</u>
Berendo st., Grenada ter- race to Alderman st....	345	12"	Clay	375.60
Berkeley st., Princeton to Monmouth st.....	483	12"	Clay	582.51
Berkshire st., I. O.....				
Oak to Myrtle st.....	701	12"	Cem.	946.21
Oak st., easterly.....	387	12"	Clay	389.89
Chestnut to Myrtle st....	577	12"	Clay	545.74
Chestnut st., westerly...	278	12"	Clay	542.99
	180	10"	Clay	
				<u>2,424.83</u>
Bease place, Main st., west- erly.....	290	10"	Clay	....
Bethel st., Brunswick st., easterly.....	300	10"	Clay	228.90
†Beverly st., Northampton to Wilbraham ave....	250	12"	Clay	539.39
Biltmore st., Dickinson st. to Trafton road.....	350	15"	Clay	905.28
	349	12"	Clay	
	351	10"	Clay	
Birnie ave., Wason ave., northerly and easterly to North Main st.....	896	24"	Clay	1,534.02
	174	15"	Clay	

*Elliptical †Storm water.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Wason ave., southerly....	350	18"	Clay	\$1,024.75
	417	15"	Clay	
Worcester st. extension, northerly to Grace st...	162	15"	Cem.	72.28
Worcester st. extension, southerly to Walter st..	144	12"	Cem.	36.15
Douglas st., northerly....	292	24"	Clay	1,265.17
	303	20"	Clay	
	304	15"	Clay	
	144	10"	Clay	
Douglas st. to near Hooker st.....	373	1'-10"x2'-9"	Brick	1,319.73
	312	20"	Clay	768.74
	316	18"	Clay	576.67
	342	15"	Clay	37.11
Arch to Hooker st.....	1,048	24"	Clay	\$6,634.62
Birnie ave. extension, Arch st., southerly....	445	10"	Clay	....
Blaine st., White st., east- erly.....	373	24"	Clay	850.08
	149	15"	Clay	402.21
				1,252.29
Blake hill, Fort Pleasant ave., easterly.....	244	10"	Clay	236.22
Bliss st., from Main to N. Y., N. H. & H. R. R....	1,284	12"	Cem.	1,324.55
Bloomfield st., Oakland to Earl st.....	500	18"	Clay	1,692.55
	527	15"	Clay	
Earl st. to Pasadena ave.	550	12"	Clay	917.72
	273	10"	Clay	2,610.27
Bond place, including 41 feet in Bridge st. (for cost see Symonds ave.).	203	12"	Cem.	....
Bond st., Garden brook sewer to Chestnut st...	341	2'-0"x3'-0"	Brick	1,580.25
	959	24"	Clay	2,285.89
				3,866.14
Bowdoin st., Worthington st., southerly.....	660	15"	Cem.	762.11
Worthington to Ingersoll grove.....	285	12"	Clay	371.52
	819	12"	Cem.	758.64
				1,892.27
Bowles st., Bay to Mc- Knight.....	695	15"	Cem.	1,083.39
	64	15"	Clay	136.50
Pease st., northerly.....	275	8"	Clay	62.76
				1,282.65

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
*Bowles park, Ardmore st., easterly	342	10"	Clay	\$241.39
Boylston st., Cypress to Clinton	610	18"	Cem. }	1,656.24
346	15"	Cem. }		
Bradford st., North Main to Fulton st.	352	15"	Cem. }	1,301.99
758	12"	Cem. }		
Bridge st., Main st. to Conn. river	798	12"	Cem.	\$762.38
275	15"	Clay	429.14	
Main to Chestnut st.	1,158	2'-0"x3'-0"	Brick	5,414.20
				6,605.72
Brightwood ave., Plainfield st., westerly	221	15"	Clay	237.94
Bristol st., Wilbraham road to Marlborough st.	299	15"	Clay }	599.47
560	12"	Clay }		
Marlborough st., south- erly	552	10"	Clay	293.99
				893.46
Broad st., Hanover to Main st.	970	15"	Cem.	1,401.19
Brookline ave., North st., easterly	328	12"	Clay }	29.57
171	10"	Clay }		
Brooklyn ave., Sumner ave., southerly	423	12"	Clay	329.56
Brown st., Yale to Bay st..	483	10"	Cem. }	357.65
21	8"	Cem. }		
Brunswick st., Brooklyn ave., southerly	307	10"	Clay	190.48
Blaine to Bethel st.	251	18"	Clay }	1,031.89
	252	15"	Clay }	
	252	12"	Clay }	
Bethel st., northerly	225	10"	Clay	237.07
				1,459.44
Bryant st., Belmont to Sumner ave.	274	15"	Clay }	
	301	12"	Clay }	763.96
	300	10"	Clay }	
Buckingham place, Bay st., westerly	235	10"	Clay	168.97
Buckingham st., Bay to Clarendon st.	651	12"	Clay }	597.24
35	12"	Cem. }		
Bay st., southerly	305	18"	Clay }	1,158.40
State to Bay st.	345	15"	Clay }	
	675	12"	Clay }	
				1,755.64
Burlington st., Belmont ave., northerly	137	10"	Clay	72.61
Burr st., Andrew st., east- erly	570	12"	Clay	499.91

* Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Burton st., White st. to Kimberly ave.....	527 180	12" 10"	Clay Clay }	\$750.94
Butler st., Chestnut to Cass st.....	1,268	20"	Clay	\$2,119.54
Cass st., easterly.....	321	20"	Clay	520.71
Calhoun st., North Main to North st.....	853	12"	Clay	701.77
North st., easterly.....	300	8"	Clay	262.38
Cambridge st., Bay st., southerly.....	276 331 266 302 278 162	20" 18" 15" 12" 10" 10"	Clay Clay Clay Clay Clay Clay }	964.15 1,204.43 411.63 142.44
Burr st., northerly.....	162	10"	Clay	1,758.50
Card-factory pond (see private ways).				
Carew st., Main st. to Gar- den brook (cost shown under Clinton st.).....	*250 32 1,456	4'-6"x6'-9" 5'-0" cir. 4'-3" cir.	Brick Brick Brick }	.... .... ....
Garden brook to Prospect st.....	1,257 791	3'-0" cir. 2'-8" cir.	Brick Brick }	22,106.89
Massasoit st., easterly ...	580 200	18" 12"	Cem. Cem.	671.51 153.28
Prospect to Armory st....	989 1,365	2'-8" cir. 2'-6"x3'-9"	Con. } Con.	8,638.14
Armory to Liberty st....	1,686	2'-2"x3'-3"	Con.	5,955.05
Liberty st., easterly.....	502 499 893	egg 15" 12" 10"	Clay Clay Clay }	1,779.04
Carlisle st., Wilbraham road, southerly.....	400 246	10" 8"	Clay Clay }	39,303.91 355.69
Carlton st., Woodlawn st., westerly.....	264	12"	Clay	683.26
Caseland st., Springfield st. to Shefford st.....	446 462	15" 12"	Clay Clay }	1,706.54
Shefford to Armory st....	*270	4'-6"x3'-0"	Con.	3,563.54
Cass st., Liberty to Frank- lin st.....	500 163	12" 10"	Clay Clay }	5,270.08 575.28
Linden st., southerly.....	596	15"	Clay	892.07
Linden st., northerly.....	224	12"	Clay	1,467.35

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Castle ave., Sumner ave., southerly.....	526	12"	Clay	\$675.22
Catharine st., Dartmouth to McKnight st.....	833	2'-0"x3'-0"	Brick	\$4,500.61
State to McKnight st....	348	15"	Clay	1,348.95
	438	12"	Clay	
	333	10"	Clay	
Cedar st., Pine to Walnut st.....	180	3'-10"x5'-9"	Brick	889.35
	1,074	3'-8"x5'-6"	Brick	6,206.73
Pine st., westerly.....	378	12"	Cem.	324.09
Cedar st., I. O., Main to river.....	433	2'-0"x3'-0"	Brick	2,001.44
Main to Centre st.....	274	12"	Clay	263.92
Cemetery brook (see pri- vate ways).				2,265.36
Center street, Oak Grove ave., northerly.....	1,008	10"	Clay	525.25
Centre st., I. O., Oak to Pine st.....	463	12"	Cem.	546.58
Pine to Cedar st.....	349	12"	Clay	668.19
	300	10"	Clay	
Cedar st., easterly.....	519	10"	Clay	
Central st., Main st., east- erly.....	99	15"	Cem.	147.60
	546	12"	Cem.	385.49
Main to Maple st.....	63	2'-0"x3'-0"	Brick	119.57
	463	2'-0"x3'-0"	Con.	2,332.17
	*41	1'-10"x2'-9"	Con.	452.04
	460	24"	Clay	2,665.22
	434	20"	Clay	
near Maple st. to Sterns terrace.....	549	18"	Clay	
	105	12"	Clay	883.33
Sterns terrace to Cedar st.	334	18"	Cem.	199.95
Pine st., westerly.....	500	12"	Cem.	102.50
Pine to Spruce st.....	339	12"	Cem.	568.42
	335	12"	Clay	514.05
	810	10"	Clay	
	861	20"	Clay	
Spruce to Hancock st....	597	2'-0"x3'-0"	Brick	1,401.59
Hancock to Mill st.....	40	24"	Clay	2,135.31
Mill st. to Mill river....				136.83
Chapel st., Eastern ave., easterly.....	400	10"	Clay	12,420.07
Chapin terrace, Chestnut st., easterly.....	327	15"	Clay	314.19
	279	12"	Clay	1,124.82
*Marvin st., easterly....	430	2'-4"x3'-6"	Con.	2,644.15
				3,768.97

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Charles st., Liberty to	27	12"	Clay	\$647.16
Franklin st.....	620	12"	Cem.	
Liberty st., southerly...	29	12"	Clay	
Charter ave., Walnut st., easterly.....	527	12"	Clay	\$660.10
Chase ave., Fort Pleasant ave., easterly.....	238	12"	Clay	564.24
	333	10"	Clay	24.49
Cherrellyn ave., Phoenix st., southerly.....	300	15"	Clay	410.62
	651	12"	Clay	574.73
	50	10"	Clay	71.01
Cherry st., Mill river to Central st.....	398	18"	Clay	1,056.36
	434	15"	Clay	1,557.17
	251	12"	Clay	
	295	10"	Clay	
Cherryvale ave., Longhill st. to Florentine gardens	596	10"	Clay	503.68
Chester st., Mill st., north- erly.....	459	12"	Clay	549.83
	161	10"	Clay	
	112	8"	Clay	
Chestnut st., Edwards st., southerly.....	575	12"	Cem.	595.03
Mattoon st., southerly...	288	15"	Cem.	319.69
Pearl to Mattoon st.....	313	1'-4"x2'-0"	Brick	445.40
Pearl to Bridge st.....	143	1'-8"x2'-6"	Brick	599.51
Bridge to Worthington st.	480	2'-0" cir.	Brick	....
Worthington to Bridge st.	353	24"	Clay	1,175.53
Worthington to Taylor st.	60	18"	Cem.	302.35
	244	12"	Cem.	
	134	18"	Cem.	
Lyman to Liberty st....	72	12"	Cem.	997.90
	258	12"	Clay	
	150	12"	Clay	
Ferry st., northerly.....	488	12"	Cem.	767.51
Franklin st., southerly...	224	24"	Cem.	378.49
Franklin to Greenwood st.	242	12"	Clay	1,248.43
Greenwood st., northerly	374	15"	Cem.	1,038.03
Essex to Everett st.....	126	8"	Clay	586.72
Carew st., southerly.....	424	24"	Clay	100.68
Carew to Prospect st....	537	20"	Clay	1,618.64
	220	12"	Cem.	
	172	12"	Cem.	
Prospect st., northerly...	108	12"	Clay	251.23
Bancroft st., southerly...	19	10"	Clay	123.00
	391	15"	Cem.	190.55
Bancroft to Montmorenci st.....				535.24

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Bancroft to Montmorenci st. (see Bancroft st.)...	....	3'-2"x4'-9"	Brick	....
Montmorenci to Waverly st.....	185	12"	Cem. }	\$1,100.74
	717	12"	Clay }	
Douglas st., southerly....	450	10"	Clay	432.05
Douglas to Springfield (see Springfield st.)....	....	3'-6" cir.	Brick	....
Merwin st., southerly....	178	10"	Clay	30.88
Eagle st., northerly.....	87	15"	Clay	....
Eagle st., southerly.....	171	10"	Clay	37.82
Noble to Jenks st.....	341	12"	Clay	653.42
				<u>\$13,528.84</u>
Chestnut st., I. O., Worces- ter to Hampden st....	342	15"	Cem.	340.25
Hampden to Berkshire st.	30	15"	Clay	55.26
Chicopee road, land of B. & A. R. R., easterly to St. James ave.....	307	15"	Clay	342.65
				<u>738.16</u>
Carew st., southerly....	*1,170	2'-10"x4'-3"	Con.	6,574.76
Carew st., northerly....	658	10"	Clay	1,033.72
Chilson st., Sumner ave, southerly.....	451	10"	Clay	391.91
				<u>8,000.39</u>
Church st., Garden brook to North st.....	304	10"	Clay	252.28
Churchill st., Sumner ave. to Garfield st.....	636	18"	Clay	1,731.13
	580	12"	Clay	151.22
	55	8"	Clay	6.89
				<u>158.11</u>
Clantoy st., Phoenix to Du- pont st.....	398	15"	Clay }	1,221.21
	517	12"	Clay }	
	366	10"	Clay }	
Claremont st., Orange st., southerly.....	492	10"	Clay	264.58
Clarendon st., Worthing- ton st., westerly.....	205	10"	Clay	225.80
Worthington to St. James ave.....	336	18"	Cem. }	1,859.31
St. James ave. to Sher- man st.....	280	15"	Clay }	
	605	12"	Clay }	
Clark st., Hancock st., westerly.....	520	10"	Clay	2,085.11
Clayton st., Plainfield st., westerly.....	299	18"	Clay	583.76
	322	15"	Clay	497.83
	315	12"	Clay }	688.43
	320	10"	Clay }	
Clermont st., I. O., Healey ave., easterly.....	150	10"	Clay	1,770.02
				<u>123.28</u>

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Cleveland st., Armory to Liberty st.....	274 250 276 284	18" 15" 12" 10"	Clay Clay Clay Clay	\$790.48
Clifford st., Bay st., north- erly	250 119	12" 10"	Clay Clay	
Clifton ave., Central st., southerly.....	398	8"	Clay	
Cliftwood st., Sumner ave., southerly.....	464	10"	Clay	
Clinton st., Fulton to Boylston st.....	150	10"	Clay	\$11.07
Boylston st., easterly....	410	12"	Cem.	441.52
submerged outlet.....	176 24	24" 24"	W'd C-ir.	2,207.90
Conn. river to Fulton st..	593	4'-10"x7'-3"		
Fulton st., Clinton to Sar- geant st.....			Brick	26,137.87
Sargeant st., Fulton to Main st.....				
Carew st., Main st. to Garden brook.....				
(For lengths and sizes see individual streets.)....				
Clyde st., Plainfield st., westerly	350 350 271	18" 15" 12"	Clay Clay Clay	1,587.01
College st., State st. to Shattuck ave.....	839	12"	Clay	
*Shattuck ave. to Acorn st.	311 900	12" 10"	Clay Clay	457.62
State st. to Wilbraham road.....	34 443	12" 10"	Clay Clay	
Collins st., Eastern ave. to Logan st.....	300 289	12" 10"	Clay Clay	457.04
Colonial ave., State st., southerly.....	326 348	12" 10"	Clay Clay	
Colton st., Wilbraham road to Beacon st.....	448 569 658	18" 15" 12"	Clay Clay Clay	2,048.71
Columbia terrace, Liberty st., north and east....	498	10"	Clay	
Commonwealth ave., Bel- mont to Washington ave.....	441 500 549	24" 20" 18"	Clay Clay Clay	

*Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Washington ave. to Fair- view st.....	691	15"	Clay	\$720.72
Concord terrace, Wilbra- ham road, northerly...	253	10"	Clay	\$3,598.72 353.06
Congress st., Garden brook to Main st.....	53	12"	Cem.	75.46
	319	12"	Clay	705.44
Garden brook to Chestnut st.....	133	20"	Clay	1,463.00
	198	18"	Clay	
	369	15"	Clay	
	288	12"	Clay	
	119	15"	Cem.	
	76	10"	Cem.	277.22
				2,521.12
Connecticut ave., Farna- worth st., southerly....	221	10"	Clay	177.05
Continental st., Sumner ave., southerly.....	215	12"	Clay	102.05
	266	10"	Clay	
Converse st., Sumner ave. to Vermont st.....	506	18"	Clay	443.87
Cook's ave., Worthington st. to N. Church ave....	117	15"	Cem.	672.96
N. Church ave., southerly (includes cost of N. Church ave.).....	69	10"	Cem.	
Coomes st., Leete st., southerly.....	421	12"	Clay	2,006.81
Cornell st., Dartmouth ter- race to Wellesley st....	185	15"	Clay	543.05
	374	12"	Clay	
Wellesley st., easterly....	186	10"	Clay	208.20
Princeton st., westerly....	52	10"	Cem.	47.30
	86	8"	Clay	88.04
Princeton st., easterly....	181	10"	Cem.	132.12
	120	10"	Clay	180.93
				1,199.64
Cortland st., State st., northerly.....	164	15"	Clay	826.36
	621	12"	Clay	
Cottage ave. (see Melrose st.)				
Court st., Court Square ave., westerly.....	461	12"	Cem.	621.55
Main st. to Court Sq. ave.	200	12"	Cem.	357.46
				979.01
Crane st., Franklin st., northerly.....	438	10"	Clay	725.69

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Crosby st., Walnut st., westerly.....	321	10"	Clay	\$231.38
Cross st., Main to Willow st.....	388	18"	Clay	\$951.12
Willow st., easterly.....	363	12"	Cem.	352.25
				1,303.37
Crossett lane, Willow st., westerly.....	169	10"	Clay	259.82
Crown st., White st., east- erly.....	341	15"	Clay	932.22
	135	12"	Clay	
	91	10"	Clay	
Crystal ave., Belmont ave., easterly.....	251	15"	Clay	24.07
	250	12"	Clay	
	298	10"	Clay	
*Dickinson st., westerly..	362	15"	Clay	650.64
	372	12"	Clay	
				674.71
Cumberland st., Chestnut st., westerly.....	167	10"	Clay	125.29
North Main to North st..	205	15"	Clay	300.96
	238	12"	Clay	284.06
				710.31
Cypress ave., Cypress st., northerly.....	360	12"	Cem.	484.08
	40	12"	Clay	23.78
				507.86
Cypress st., Conn. river to Garden brook in Ferry st.....	1,081	3'-4"x5'-0"	Brick	10,048.85
†Connecticut river to Ful- ton st.....	385	4'-10"x7'-3"	Con.	3,919.09
†Fulton to Main st.....	691	4'-2"x6'-3"	Con.	6,470.80
				20,438.74
Dale st., northerly from sewer 60 ft. south of Hubbard ave.....	203	10"	Clay	184.27
Winthrop st., southerly..	46	8"	Clay	13.08
Winthrop st., northerly..	123	10"	Clay	259.62
William st., northerly....	143	10"	Clay	288.91
				745.86
Dartmouth st., St. James ave. to Yale st.....	973	3'-0"x4'-6"	Brick	8,247.06
Yale to Bowles st.....	295	2'-6"x3'-9"	Brick	
Dartmouth terrace, Wor- thington to Cornell st..	499	20"	Clay	2,213.06
	357	18"	Clay	
	177	15"	Clay	

* Surface drainage only. † Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Davis court, Bridge st. to Harrison ave.....	450	12"	Clay	\$500.67
Daviston ave., Allen to West Alvord st.....	403	10"	Clay	1,258.06
West Alvord to East Alvord st.....	400	10"	Clay	
East Alvord st., south- easterly.....	299	10"	Clay	
Sumner ave., northerly...	267	18"	Clay	
Dawes st., Bay st., south- erly.....	299	15"	Clay	
	310	12"	Clay	207.36
	518	10"	Clay	
Dawson ave., White street, westerly.....	350	10"	Clay	118.35
Daytona st., Belmont to Sumner ave.....	524	12"	Clay	500.44
Demond ave., Fisk ave., westerly.....	510	12"	Clay	642.06
Plainfield st., easterly....	403	12"	Clay	
Denton circle, Liberty st., easterly.....	406	12"	Clay	473.00
Dexter st., Knox to Pine st.	300	15"	Clay	
	282	12"	Clay	\$686.15
	202	10"	Clay	219.08
				905.23
Dickinson st., Mill st. to Sumner ave.....	35	4'-6" cir.	Brick	44,606.56
	60	2'-1"x5'-0"	Con.	
	251	5'-0" cir.	Brick	
	679	4'-0" cir.	Brick	
	*460	4'-10"x7'-3"	Brick	
	*869	4'-8"x7'-0"	Brick	
	*1,040	4'-4"x6'-6"	Brick	
	*996	4'-2"x6'-3"	Brick	8,806.81
Sumner ave., southerly...	1,379	2'-6"x3'-9"	Brick	
	324	2'-4"x3'-6"	Brick	
	434	2'-0"x3'-0"	Brick	
	312	1'-10"x2'-9"	Brick	
				53,413.37
Division st., Plainfield st., westerly.....	300	18"	Clay	810.21
	250	15"	Clay	
Donald st., Birnie ave., easterly.....	315	10"	Clay	406.60
Dorchester st., St. James ave. to Amherst st....	364	12"	Clay	417.70
	238	10"	Clay	
Dorne st., Smith st., north- erly.....	219	12"	Clay	182.12
Douglas st., B. & M. R. R. to North Main st. (see Rowland ave.).....	....	....	....	....

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Dover st., North Main to Chestnut st.....	424 442	4'-6" cir. 4'-0" cir.	Brick } Brick }	\$4,805.19
Dresden st., State st., southerly.....	359 321	12" 10"	Clay } Clay }	25.14
Dunmoreland st., Wilbra- ham road, southerly...	301 302 350	15" 12" 10"	Clay } Clay } Clay }	\$1,113.42
* Westford circle, north- erly.....	584	10"	Clay	681.23
* Westford circle to King st.....	546	10"	Clay	510.37
† Westford circle, south- erly.....	276	10"	Clay	672.35
				2,977.37
* Duryea st., Page boule- vard to Eureka st.....	1,068	10"	Clay	1,029.27
Dwight road, White to Leslie st.....	346 348	18" 15"	Clay } Clay }	2,075.78
Dwight st., Sanford to State st.....	258	2'-8"x4'-0"	Brick	1,571.86
Sanford st. to Harrison ave.	253 229 199 129	20" 18" 15" 12"	Clay } Clay } Clay } Clay }	1,441.27
Harrison ave., northerly..	226	10"	Clay	319.96
Hillman st., southerly....	103	10"	Clay	289.25
Hillman st., northerly....	269	12"	Clay	420.28
Worthington st., southerly	342	12"	Clay	433.91
Worthington st., northerly			Cem.	374.73
				4,851.26
Dwight st. extension, Saratoga st., southerly	249	12"	Clay	286.25
Dwight st. underpass, Lib- erty st., southerly.....	390	12"	Clay	....
Dymon st., Walnut st., easterly.....	415	12"	Cem.	385.92
Eagle st., North Main to Chestnut st.....	643	15"	Clay	....
Earl st., Bloomfield st., northerly.....	190	10"	Clay	157.32
East Alvord st., West Al- vord st. to Daviston avenue.....	495 598	18" 12"	Clay } Clay }	1,031.68
East Court st., Dwight st., westerly.....	206 62	12" 10"	Clay } Clay }	303.10

* Sanitary sewer. † Storm water sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size /	Ma- terial	Cost
East Hooker st., North				
Main to North st.....	444	10"	Cem.	\$110.26
	255	10"	Clay	....
				\$110.26
Eastern ave., Watershops				
pond to Manhattan st..	1,164	24"	Clay	2,164.43
Manhattan to Alden st....	338	20"	Clay	636.21
Alden to Collins st.....	231	12"	Clay	313.99
Greene st., southerly....	125	8"	Clay	69.58
Greene to Ladd st.....	38	15"	Clay	67.21
Olive st., southerly.....	169	8"	Clay	167.87
Lebanon to Olive st.....	159	12"	Cem.	190.96
Lebanon to King st.....	194	12"	Cem.	351.89
	55	12"	Clay	95.43
King to Chapel st.....	152	10"	Cem.	166.50
	101	10"	Clay	149.70
Pendleton ave., northerly.	312	12"	Cem.	256.78
Tyler st., northerly.....	286	12"	Cem.	181.30
Quincy st., northerly....	118	10"	Cem.	131.15
Monroe st., southerly....	28	12"	Cem.	45.09
	210	8"	Clay	179.00
Monroe st., northerly....	29	12"	Cem.	51.50
	123	8"	Clay	84.98
Wilbraham rd., southerly	296	12"	Clay	1,250.01
				6,553.58
Eddywood ave., Sumner				
ave., northerly.....	328	10"	Clay	436.66
*Edendale st., Page blvd.				
to Bowles park.....	1,471	10"	Clay	1,299.39
Edgemont st., State st.,	499	10"	Clay	554.05
northerly.....	296	8"	Clay	
*Edgewood st., Acorn to				
Bay st.....	1,001	8"	Clay	443.73
Edwards st., Chestnut st.,				
easterly.....	551	12"	Cem.	495.36
Eldredge st., Belmont ave.				
to Washington st.....	531	10"	Clay	579.10
Eleanor road, White st.,	277	15"	Clay	854.78
southerly.....	430	12"	Clay	
Elliot st., Salem st., south-	610	15"	Cem.	730.48
erly.....	243	12"	Cem.	341.99
				1,072.47
Elm st., submerged outlet..	191	24"	Wood	1,700.79
	26	24"	C. Iron	359.80
Conn. river to Water st...	385	3'-9" cir.	Brick	10,759.40
Water to Main st.....	996	3'-8"x5'-6"	Brick	
				12,819.99

*Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Elmwood st., Main to Han- over st.....	300 249 299	18" 15" 12"	Clay Clay Clay }	\$1,058.02
Emery st., Boylston st., east and west.....	542	12"	Cem.	653.92
Essex street, Garden brook, westerly.....	418	15"	Cem.	\$355.00
Garden brook to Chestnut st.....	1,115 204	2'-2"x3'-3" 18"	Brick Cem.	7,140.62 434.71
				7,930.33
Essex st., I. O., Oak to Myrtle st.....	254	12"	Clay }	662.25
Oak st., easterly.....	426 183	10" 10"	Clay Clay }	248.23
Eton st., Sumner ave. to Morningside park.....	502 272	12" 10"	Clay Clay }	910.48 698.40
Euclid ave., Belmont ave. to Dickinson st.....	389 741 77	12" 10" 8"	Clay Clay Clay }	1,203.46 50.67
*Dickinson st., westerly..	350 350	15" 12"	Clay Clay }	773.10
Dickinson st., easterly...	275	10"	Clay	332.10
Orange st., southerly....	257 172	18" 10"	Clay Clay }	871.20
Orange st., northerly....	30	12"	Clay	23.07
				3,253.60
Everett st., Chestnut st. to brook.....	323	15"	Cem.	320.58
brook to Cass st.....	926	15"	Clay	821.43
Cass st., easterly.....	313	15"	Clay	646.97
				1,788.98
Fairbanks place, Wor- thington st., northerly.	249	10"	Clay	251.54
Fairfield st., Litchfield to Garfield st.....	376 556	12" 10"	Clay Clay	351.64
				351.64
Fairmount st., Common- wealth ave. to Lawn- dale st.....	350	10"	Clay	173.17
Falmouth st., I. O., Par- ker st., westerly.....	204	18"	Clay	275.44
Farnsworth st., Hamburg st. to Connecticut ave..	530 279 341 264	20" 18" 12" 10"	Clay Clay Clay Clay }	1,653.14 1,011.82
				2,664.96

* Surface drainage only.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Federal st., Worthington to Pearl st.	567	12"	Cem.	\$740.92
Summer st., southerly....	274	10"	Clay	172.00
				\$912.92
Ferry st., Main to Garden brook (see Cypress st.).	....	....	....	....
Garden brook to Chestnut st.	1,168	2'-4"x3'-6"	Brick	5,417.12
Main st., easterly.....	*394	4'-2"x6'-3"	Con. }	11,067.29
	1,004	4'-9" cir.	Con. }	16,484.41
Firglade ave., Sumner ave. to Spruceland st.	350	10"	Clay }	239.66
Spruceland to Pineywoods avenue.....	203	8"	Clay }	....
	447	10"	Clay	....
	67	8"	Clay	....
Pineywoods ave. to Wash- ington boulevard.....	242	12"	Clay }	431.88
	176	10"	Clay }	671.54
Fiak ave., Rowland to Wor- cester ave.	272	24"	Clay }	1,073.11
	275	20"	Clay }	
	298	10"	Clay }	
Wason ave., southerly...	299	24"	Clay }	1,216.81
	294	20"	Clay }	
	248	12"	Clay }	2,289.92
Florence st., Pine st., east- erly.	824	15"	Cem. }	2,227.38
Hancock st., easterly....	651	12"	Cem. }	323.93
	253	10"	Cem.	31.11
	26	10"	Clay	2,582.42
Florentine gardens, Piney- woods ave., northerly..	421	10"	Clay	81.89
Florida st., Worthington to Ingersoll Grove st.	555	15"	Clay }	978.89
Worthington to St. James ave.	279	12"	Clay }	
	935	2'-2"x3'-3"	Brick	4,499.10
St. James ave. to Bay st.	599	24"	Clay	1,832.21
				7,310.20
Forest st., Belmont to Forest Park ave.	419	12"	Clay }	806.38
	255	10"	Clay }	
Forest Park ave., Fort Pleasant ave. to Gar- field st.	1,081	24"	Clay }	....
	325	20"	Clay }	1,217.48
	562	18"	Clay }	
Sumner ave., northerly...	567	12"	Clay	177.07
Sumner ave., southerly...	66	10"	Clay	....
	438	10"	Clay	379.92

*Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Pineywoods ave., north- erly.....	380	10"	Clay	\$60.18
Fort st., Main to Water st..	633	12"	Cem.	\$1,834.65
Fort Pleasant ave., Mill river to Sumner ave....	888	2'-4"x3'-6"	Brick }	633.48
Mill st., southerly.....	1,825	2'-0"x3'-0"	Brick }	13,339.80
	428	12"	Clay	293.42
				13,633.22
Foster st., Knox st., east- erly.....	511	12"	Clay	517.25
	224	12"	Cem.	34.68
				551.93
Fountain place, Belmont ave., southerly.....	299	12"	Clay	310.25
Franklin st., Garden brook sewer to Main st.....	434	18"	Cem.	593.18
Garden brook sewer to Chestnut st.....	919	2'-2"x3'-3"	Con.	4,106.84
Chestnut to Charles st....	295	20"	Clay	804.75
Charles to Cass st.....	273	15"	Clay	384.87
	827	12"	Clay }	1,168.25
	276	10"	Clay }	
Cass to Murray Hill ave.	621	12"	Clay }	1,051.76
	330	10"	Clay }	
Nursery st., westerly....	207	15"	Clay	....
Nursery to Genesee st....	107	15"	Clay	199.93
	557	15"	Cem.	....
	27	12"	Clay	57.66
				8,367.19*
Freeman terrace, Stock- man to Phoenix st.....	252	18"	Clay }	870.04
	270	15"	Clay }	
Fremont st., Main to Water st.....	780	1'-6"x1'-7"	Brick	702.45
Main st., westerly.....	656	12"	Cem.	692.92
	30	12"	Clay	65.21
				1,460.58
Fresno st., Page boulevard, easterly.....	935	10"	Clay	4,205.84
Fulton st., Cypress to Clinton st.....	944	12"	Cem.	924.38
*Clinton to Sargeant st. (cost shown under Clin- ton st.).....	1,080	4'-8"x7'-0"	Brick	....
	42	4'-10"x7'-3"	Brick	....
Sargeant to John st.....	555	15"	Cem.	1,219.02
John st., northerly.....	314	12"	Clay }	674.48
	408	10"	Clay }	
				2,817.88
Garden brook sewer (see private ways).				

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Gardner ave., Gardner st., northerly.....	151	8"	Clay	\$73.11
Gardner st., Hanover to Water st.....	655	2'-0"x3'-0"	Brick	\$1,995.23
Water to Main st.....	226	12"	Clay }	504.81
	199	10"	Clay }	2,500.04
Garfield st., Forest Park ave., easterly.....	556	15"	Clay }	1,073.96
	514	12"	Clay }	
Belmont ave., westerly...	531	10"	Clay	450.79
Genesee st., Franklin st., southerly.....	200	10"	Clay	281.49
Armory to Liberty st....	350	12"	Clay }	645.23
	351	10"	Clay }	
George st., Dexter st., southerly.....	409	10"	Clay	926.72
Girard ave., Bay to Mc- Knight st.....	944	12"	Clay	473.80
Glendell terrace, Euclid ave., easterly—north side.....	101	12"	Clay }	569.36
	175	10"	Clay }	
Euclid ave., easterly— south side.....	268	10"	Clay	496.36
				1,065.72
Goodrich st., Liberty st., northerly.....	240	10"	Clay	460.87
Gordon st., Pasadena ave. to White st.....	618	15"	Clay	627.46
Governor st., Armory st. to Penacook ave.....	424	20"	Clay }	
	401	18"	Clay }	1,276.19
	402	15"	Clay }	
	224	12"	Clay }	
Grace st., Birnie ave., east- erly.....	274	15"	Cem.	51.56
Grand st., Revere st., east- erly.....	250	15"	Clay }	
	252	12"	Clay }	....
Revere st., westerly.....	151	10"	Clay	30.85
				30.85
Grant st., Magazine to Armory st.....	588	12"	Cem.	477.26
Granville st., Eastern ave. to Logan st.....	248	12"	Clay }	644.77
	247	10"	Clay }	
Gray's ave., Cypress st., northerly.....	495	12"	Cem.	460.92

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Greenacre sq. (north), Foster st., easterly	201	10"	Clay	\$173.46
Greenacre sq. (south), Foster st., easterly	346	10"	Clay	316.93
Greenbrier st., Larkspur to Trillium st.	300	10"	Clay	322.19
Blaine to Trillium st.	270	10"	Clay	
Greene st., Hancock to Eastern ave.	610	18"	Cem.	
Greene lane, Rimmon ave., westerly and northerly.	793	15"	Cem.	1,897.68
	744	12"	Clay	....
	143	10"	Clay	....
Greenleaf st., Sumner ave. to Garfield st.	527	12"	Clay	178.85
Greenwich st., Birnie ave., easterly	300	12"	Clay	467.79
	300	10"	Clay	
Greenwood st., Garden brook to Main st.	250	15"	Clay	\$645.46
	136	12"	Clay	
Garden brook, easterly...	538	15"	Clay	
	448	12"	Clay	1,639.27
	117	10"	Clay	2,284.73
Grenada terrace, Dickinson to Ventura st.	220	18"	Clay	828.48
	310	15"	Clay	
Ventura st., easterly.	309	12"	Clay	445.27
	216	10"	Clay	1,273.75
Grosvenor st., North to Chestnut st.	131	18"	Cem.	721.17
	648	15"	Cem.	
Grove st., North Main st., easterly	409	10"	Clay	442.65
North st., westerly	270	10"	Clay	
Groveland ave., Dickinson st. to town line	533	12"	Clay	525.19
	117	10"	Clay	
Grover st., Armory to Liberty st.	300	18"	Clay	910.58
	303	15"	Clay	
	298	12"	Clay	
	432	10"	Clay	
†Gunn sq., Westford ave., westerly	290	10"	Clay	343.09
Hall st., Belmont ave. to Dickinson st.	500	12"	Clay	
Dickinson st.	474	10"	Clay	904.55
*Dickinson st., southerly.	774	12"	Clay	698.29
Hamburg st., Springfield st., easterly	367	20"	Clay	1,602.84
	235	10"	Clay	1,067.20

* Surface drainage only. †Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Hampden st., Water to Main st.....	569	15"	Cem.	\$762.57
Hampden st., I. O., Chest- nut st., easterly.....	285	12"	Cem.	\$187.28
	174	12"	Clay	299.12
Holly st., easterly.....	150	10"	Clay	165.26
Pine st., westerly.....	200	12"	Clay }	370.33
	199	10"	Clay }	
				1,021.99
Hampshire st., I. O., Oak st., westerly.....	300	12"	Clay }	633.59
	398	10"	Clay }	
Oak st., easterly.....	250	12"	Cem.	206.20
Pine st., westerly.....	469	10"	Clay	539.21
Myrtle st., westerly.....	300	10"	Clay	295.05
				1,674.05
Hancock st., Mill river to Central st.....	920	12"	Clay	995.01
Central to Walnut st.....	218	18"	Cem. }	1,874.54
	1,343	15"	Cem. }	
Walnut to Alden st.....	122	12"	Cem.	88.00
Lebanon to Alden st.....	827	2'-0"x3'-0"	Brick	5,009.61
Walnut (through Leb- anon) to Quincy st.....	1,852	3'-6"x5'-3"	Brick }	21,668.02
Quincy to State st.....	913	3'-4"x5'-0"	Brick }	
				29,635.18
Hanover st., York to Gard- ner st.....	830	2'-2"x3'-3"	Brick	2,650.26
Harriet st., North Main to North st.....	250	15"	Clay }	377.17
	207	12"	Clay }	
North st., easterly.....	330	10"	Clay	200.13
				577.30
Harrison ave., Main to Chestnut st.....	600	15"	Cem.	874.11
	250	8"	Clay	203.61
				1,077.72
Harvard st., Yale st. to St. James ave.....	316	18"	Clay }	998.99
	300	15"	Clay }	
	291	12"	Cem.	266.84
St. James ave. to Cornell st.....	736	12"	Cem.	122.29
				1,388.12
Hastings st., Kendall ave., easterly.....	250	15"	Clay }	734.61
	250	12"	Clay }	
	201	10"	Clay }	
Freeman terrace, easterly	250	12"	Clay }	651.30
	254	10"	Clay }	
				1,385.91

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Hawley st., State st., south- erly	110	12"	Cem. }	\$300.34
Monroe st., northerly	71	12"	Cem. }	
	330	10"	Clay }	
Hawthorne st., Hancock st., westerly	441	12"	Cem.	480.95
Hayden ave., State st., northerly	335	12"	Clay }	308.14
	557	10"	Clay }	
Healey ave., I. O., Worces- ter to South st.	989	15"	Clay	\$1,876.01
South st., southerly	350	12"	Clay }	575.54
	84	10"	Clay }	
				2,451.55
Hebron st., North to Chestnut st.	663	12"	Clay	519.82
Herman st., Sumner ave. to Vermont st.	257	12"	Clay }	603.88
	286	10"	Clay }	
Hiawatha st., White st., westerly	383	10"	Clay	347.99
Hickory st., Hancock st., easterly	200	12"	Clay }	868.40
	252	10"	Clay }	
Mill river intercepting sewer to Alden st.	754	20"	Clay	2,557.29
	228	18"	Clay	
	184	15"	Clay	
	788	12"	Clay }	
				3,425.69
High st., Maple st. to Ingraham ave.	523	18"	Clay }	1,958.92
	567	15"	Clay }	
	550	12"	Clay }	
Ingraham ave., easterly ..	846	12"	Clay	987.71
				2,946.63
Hillman st., Main to Dwight st.	350	15"	Clay }	1,436.30
	380	12"	Clay }	
Hillside place, Richelieu court, easterly	106	8"	Clay	....
Holland st., North Main st., easterly	225	12"	Clay }	425.75
	50	10"	Clay }	
Holly st., I. O., Worcester to Hampden st.	377	15"	Clay	419.11
Hampden st., southerly ..	175	12"	Clay	117.69
				536.80
Hollywood st., Common- wealth ave., easterly ...	211	12"	Clay }	508.61
	241	10"	Clay }	
Dickinson st., easterly ...	174	10"	Clay	121.04
				629.65

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Holyoke st., Main st., west- erly	734	12"	Cem.	\$1,096.65
Home st., Liberty st., west- erly	424	10"	Clay	\$322.65
Penacook ave., easterly ..	246	10"	Clay	246.22
				568.87
Homer st., State st., south- erly	31	12"	Clay }	
	464	10"	Clay }	186.81
Horace st., Dickinson st., northerly	363	12"	Clay }	
	411	10"	Clay }	861.90
Howard st., Main st., west- erly	344	15"	Clay }	
	321	12"	Clay }	837.22
Water st., easterly	276	12"	Cem.	255.78
	30	12"	Clay	43.40
Water st., westerly	314	12"	Cem.	326.98
	31	12"	Clay	90.75
				1,554.13
Hubbard ave., Main st., easterly	257	15"	Clay }	
	321	12"	Clay }	630.47
Hughes st., Sylvan ave., westerly	252	10"	Clay	233.16
Hunt terrace, Allen st., northerly	304	10"	Clay	....
Hunter place, State st., northerly	350	12"	Clay }	
	313	10"	Clay }	602.72
Huntington st., Birnie ave., easterly	300	12"	Clay }	
	300	10"	Clay }	441.98
Hyde ave., Fisk ave. to Plainfield st.	301	15"	Clay }	
	300	12"	Clay }	712.99
	219	10"	Clay }	
Ingersoll grove, Worthing- ton st., northerly	782	12"	Cem. }	
	218	8"	Clay }	1,038.85
Florida st., easterly	146	10"	Clay	90.97
Bowdoin st., easterly	132	10"	Clay	106.53
				1,236.35
Ionia st., State st., northerly	720	10"	Clay	445.92
Irvington st., Sumner ave. to Morningside Park...	300	12"	Clay }	
	400	10"	Clay }	201.07
Itendale st., Belmont ave. to Washington st.	277	20"	Clay }	
	455	18"	Clay }	1,520.83
James st., Cedar st., north- erly	289	15"	Cem. }	
	534	12"	Cem. }	924.38

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Material	Cost
Jefferson ave., North Main to Chestnut st.....	299	20"	Clay	\$1,755.12
See private ways also.	299	18"	Clay	
	276	15"	Clay	
	60	12"	Clay	
	414	12"	Cem.	
	78	6"	Clay	531.66
				37.89
Jenks st., North Main to Chestnut st.....	404	12"	Clay	\$2,324.67
John st., Fulton to Plain- field st.....	652	12"	Cem.	699.05
Johnson st., Dickinson st. to Pasadena ave.....	1,964	18"	Clay	420.18
Johnson st., I. O., Main to South st.....	500	20"	Clay	3,756.87
	463	18"	Clay	1,254.26
	551	12"	Clay	
Keith st., Belmont ave. to Dickinson st.....	551	10"	Clay	1,106.40
*Dickinson st., southerly.	350	15"	Clay	
	301	12"	Clay	823.06
	186	10"	Clay	
Kendall st., Liberty st. to Sherman ave.....	907	18"	Clay	1,929.46
Kensington ave., Oakland to Earl st.....	451	18"	Clay	2,462.18
	402	15"	Clay	2,248.76
	567	12"	Clay	
Earl st. to Pasadena ave.	260	10"	Clay	
Kenwood park, Belmont ave., northerly.....	130	12"	Clay	261.80
	1,127	10"	Clay	
Kenwood terrace, Belmont to Sumner ave.....	218	12"	Clay	463.91
	328	10"	Clay	
Kibbe ave., Summer to Worthington st.....	260	18"	Clay	552.92
Kibbe Hollow, northerly of Worthington st.....	447	24"	Clay	....
Southerly of Worthington st.....	144	15"	Clay	324.32
Kimberly ave., White st., northerly.....	250	12"	Clay	324.32
	282	10"	Clay	
Rupert to Mansfield st...	719	10"	Clay	1,315.99
King st., Walnut to Han- cock st.....	504	15"	Cem.	
	441	12"	Cem.	921.37
Hancock to Logan st.....	311	20"	Clay	
	399	18"	Clay	2,650.91
	686	15"	Clay	
	238	12"	Clay	701.29
	239	10"	Clay	
†Westford to Wilbraham ave.....	427	10"	Clay	321.81

* Surface drainage only. † Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
*Westford ave., easterly..	225	10"	Clay	\$197.13
**Massachusetts av. to Dunmoreland st.....	248	10"	Clay	278.75
**Massachusetts to West- ford av.....	243	12"	Clay	511.75
	84	10"	Clay	
**Northampton to Wil- braham av.....	221	20"	Clay	922.15
Knox st., Mill river to Windsor st.....	1,303	24"	Clay	\$6,505.26
Ladd st., Eastern ave. to	243	15"	Clay	3,132.56
Logan st.....	304	12"	Clay	
Lafayette st., St. James ave. to Amherst st....	582	12"	Clay	479.68
	21	10"	Clay	
Langdon st., Penacook ave., easterly.....	504	12"	Clay	614.58
	326	10"	Clay	
Larkspur st., White st., easterly.....	299	15"	Clay	679.73
	304	12"	Clay	
	101	10"	Clay	500.85
Laurel st., Conn. river to Plainfield st.....	534	18"	Cem.	
	405	18"	Clay	1,548.19
	20	18"	Clay	1,358.28
Laverne ave., Bellevue ave. to Marengo park....	211	10"	Clay	44.62
Lawndale st., Belmont ave. to Glenwood st...	300	12"	Clay	2,951.09
	302	10"	Clay	
Lebanon st. (see Hancock)	....	3'-8"x5'-3"	Brick	....
Hancock st., westerly....	158	2'-0"x3'-0"	Brick	1,495.77
Hancock to Eastern ave..	606	18"	Cem.	
	816	15"	Cem.	1,869.20
Ledyard st., Armory st., northwesterly.....	478	10"	Clay	3,364.97
Leete st., Longhill st., east- erly.....	431	18"	Clay	
	270	15"	Clay	321.39
	150	10"	Clay	
Lenox st., Sumner ave., southerly.....	465	10"	Clay	1,570.13
Leonard st., Franklin st., northerly.....	367	12"	Clay	
	52	10"	Clay	103.74
Leslie terrace, Liberty st., northerly.....	151	12"	Clay	
Lester st., Sumner ave. to Vermont st.....	286	12"	Clay	832.48
	279	10"	Clay	
Lexington ave., Chestnut to Massasoit st.....	668	12"	Clay	236.20
†Massasoit st., easterly..	437	2'-0"x3'-0"	Con.	
				546.52
				1,996.91
				2,543.43

*Sanitary sewer.

† Egg shape.

**Storm water sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Leyfred terrace, Belmont ave., northerly.....	300 317	18" 15"	Clay Clay }	\$1,041.08
Liberty st., Garden brook to Main st.....	118	12"	Clay	\$179.19
Garden brook to Chestnut st.....	70 172 644 325 184	1'-6"x1'-7" 12" 20" 15" 12"	Brick Cem. Clay Clay Clay }	2,902.14
Chestnut to Webster st...	784 659 684	2'- 4"x3'-6" 1'-10"x2'-9" 2'- 2"x3'-3"	Brick Brick Brick }	9,123.49
Webster to Armory st...	366 1,282 317 449	3'- 0"x4'-6" 2'- 2"x3'-3" 1'-10"x2'-9" 2'- 2"x3'-3"	Brick Brick Brick Brick }	5,383.15
Armory to Roy st.....	1,194 1,103 1,447	24" 18" 15"	Clay Clay Clay }	6,715.67
Lillian st., Oak st., easterly	297	12"	Clay	26,870.33
Lincoln st., Magasine to Federal st.....	823	12"	Clay	232.47
Linden st., Chestnut to Cass st.....	470 862	18" 15"	Clay Cem. }	676.54
Litchfield st., Belmont ave. to Fairfield st.....	159	15"	Clay	335.11
Garfield st., northerly....	69	6"	Clay	7.10
				342.21
Locust st., York to Mill st.	84 364 686	3'-0"x4'- 6" 2'-9"x4'-1 1/2" 2'-6"x3'- 9"	Brick Brick Brick }	6,804.18
Dickinson st., westerly..	197	20"	Clay	617.01
				7,421.19
Logan st., Collins st., southerly.....	97	10"	Clay	133.56
Collins to Ladd st.....	183	10"	Clay	188.75
Ladd st., northerly.....	88	10"	Clay	67.64
Granville st., northerly...	200	10"	Clay	169.04
				558.99
Lombard st., Water st., easterly.....	500	12"	Cem.	382.41
Longfellow terrace, White st., westerly.....	246 200	12" 10"	Clay Clay }	290.03
southerly towards Bel- mont ave.....	229	10"	Clay	153.84
				443.87

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Longhill st., submerged outlet.....	26 290 28	18" 18" 18"	Clay W'd C-ir.	\$5,387.70
Conn. river to Washing- ton boulevard.....	1,373	24"	Clay	
(See Washington boulevard)	283	2'-4"x3'-6"	Brick	
Washington ave., northerly	399	15"	Clay	1,027.66
	512	12"	Clay	
	160	10"	Clay	
Sumner ave., southerly...	356	8"	Clay	386.61
Main st. to Sumner ave...	90	2'-0"x3'-0"	Con.	514.35
	136	24"	Clay	3,660.86
	265	18"	Clay	
	350	15"	Clay	
	400	12"	Clay	
	777	10"	Clay	
Longview st., Leete st., southerly	265 248	12" 10"	Clay Clay	\$15,052.74
				506.49
				1,163.38
				1,669.87
Loring st., Water st., east- erly.....	607 40	12" 12"	Cem. Clay	733.41
				48.34
				781.75
Lowell st., Conn. river to Plainfield st.....	305 396 466 283	18" 15" 12" 10"	Clay Clay Clay Clay	1,063.24
Lowell st. pumping sta- tion.....	...	....	...	2,991.84
Lyman st., Main to Chest- nut st.....	1,335	2'-0"x3'-0"	Brick	6,113.12
Chestnut to Spring st...	418	15"	Clay	1,793.76
	302	15"	Cem.	695.83
				8,602.71
Lyndale st., Belmont ave., northerly.....	350 300 324	15" 12" 10"	Clay Clay Clay	952.60
Lyons st., I. O., Main st., northerly.....	261	18"	Clay	389.58
Worcester st., southerly..	319	10"	Clay	440.03
				829.61
Madison ave., Central st., northerly.....	250 287	12" 10"	Clay Clay	737.57
Magazine st., Worthington to Lincoln st.....	682 249	18" 15"	Cem. Cem.	1,267.96

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Magnolia terrace, east side, Sumner to Spruce- land ave.....	620	10"	Clay	\$1,233.46
west side, Sumner to Spruceland ave.....	621	10"	Clay	
overflow connection be- tween east and west side	62	8"	Clay	26.00
Washington to Spruceland ave.....	362	24"	Clay	21.08
	602	12"	Clay	\$1,280.54
Main st., Pecousic ave. to Longhill st.....	191	2'-4"x3'-6"	Con.	1,077.51
Mill river to Mill st.....	258	10"	Clay	342.25
Locust to Mill st.....	385	15"	Clay	1,926.01
	394	12"	Clay	
Mill st., southerly.....	55	15"	Cem.	96.72
York st. to B. & A. R. R.	56	7'-0" cir.	Brick	20,812.99
	1,772	6'-6" cir.	Brick	
	906	5'-6" cir.	Brick	
	990	5'-0" cir.	Brick	
	1,624	3'-4"x5'-0"	Brick	34,453.56
	864	2'-4"x3'-6"	Brick	359.25
	264	12"	Clay	
Cypress to Emery st....	298	15"	Clay	1,210.56
	270	12"	Clay	
Emery st., southerly....	278	12"	Cem.	389.20
Emery to Sargeant st....	341	24"	Clay	2,840.72
	442	20"	Clay	
	480	18"	Clay	
	186	15"	Clay	
Main st., I. O., Chicopee river to Pine st.....	2,321	2'-4"x3'-6"	Brick	7,654.03
Pine to Cedar st.....	500	18"	Cem.	896.63
	185	15"	Cem.	
	103	12"	Clay	128.49
Cedar to Lyons st.....	1,110	2'-0"x3'-0"	Brick	5,068.28
Chicopee river through private land and Main st. to Beaudry st.....	699	18"	Clay	1,530.17
	232	15"	Clay	
	212	10"	Clay	
Parker st., westerly.....	473	12"	Clay	517.35
Lyons st., easterly.....	205	24"	Clay	1,439.14
	245	18"	Clay	
	129	12"	Clay	
Malden st., Allen st., southerly.....	542	15"	Clay	17,234.09
	291	12"	Clay	153.77
	581	10"	Clay	

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Manchester terrace, White st., southerly.....	254	15"	Clay	\$518.76
Manhattan st., Eastern ave. to Walnut st.....	290	15"	Clay	862.70
	645	12"	Clay	
	205	10"	Clay	
Manitoba st., White to Blaine st.....	247	15"	Clay	1,037.77
	256	12"	Clay	
	273	10"	Clay	
Manfield st., White st. to Kimberly ave.....	351	18"	Clay	1,814.89
	251	15"	Clay	
	341	12"	Clay	
Maple st., State to Temple st.....	315	18"	Clay	\$675.51
Park to High st.....	225	18"	Clay	51.55
Union st., southerly.....	515	18"	Cem. }	505.21
	135	12"	Cem. }	959.13
Central st. to Avon place.	192	24"	Clay	1,417.41
Central st., southerly....	33	18"	Cem. }	160.95
	388	12"	Cem. }	1,289.58
	784	12"	Clay	1,093.44
Pine st., northerly.....	195	15"	Cem. }	
	522	12"	Cem. }	6,152.78
Mapledell st., State to Burr st.....	337	15"	Clay	133.34
	300	12"	Clay	
	388	10"	Clay	
Maplewood terrace, Fort Pleasant ave., easterly.	682	15"	Clay	22.21
	329	12"	Clay	
	178	10"	Clay	
Marble st., Main st., east- erly.....	222	18"	Cem. }	1,248.12
	586	15"	Cem. }	
	242	12"	Cem. }	
Marengo park, Belmont ave., easterly.....	443	15"	Clay	117.62
	612	12"	Clay	
	778	10"	Clay	
Margaret st., Water st., westerly.....	520	12"	Cem.	540.89
Water st., easterly.....	825	12"	Cem.	855.32
	30	12"	Clay	31.41
				1,427.62

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Marion st., Bay st., south- erly.....	833	12"	Clay	\$944.01
Chapin st., easterly.....	94	10"	Clay	25.89
	319	8"	Clay }	
Market st., State st., north- erly.....	119	10"	Clay	\$969.90
Sanford st., southerly....	200	12"	Clay	437.55
Sanford st. to Harrison ave.....	301	15"	Clay }	1,197.72
	350	12"	Clay }	
Harrison ave., southerly..	154	12"	Cem.	....
				1,635.27
Marlboro ave., State st. to Wilbraham road.....	300	12"	Clay }	
	449	10"	Clay }	555.21
Marlborough st., Bristol st., easterly.....	160	10"	Clay	101.12
Middlesex to Suffolk st..	172	10"	Clay	177.34
Marshall place (see Mel- rose st.).				278.46
Mason place, Dickinson st., southerly.....	200	12"	Clay }	
	276	10"	Clay }	433.02
Mason st., State to Pease st.....	349	15"	Clay }	
	359	12"	Clay }	746.99
Massachusetts ave., Wil- braham road, southerly	300	15"	Clay }	
	300	12"	Clay }	1,056.92
	227	10"	Clay }	
Westford circle, northerly	218	12"	Clay }	
	489	10"	Clay }	47.67
*Westford circle, southerly	603	12"	Clay	798.34
**Westford circle, south- erly.....	238	24"	Clay }	
	366	18"	Clay }	1,897.00
				3,799.93
Massasoit place, Massasoit st., easterly.....	381	12"	Clay	....
Massasoit st., Carew st., northerly.....	709	12"	Cem.	579.69
	131	10"	Clay	124.62
Lexington ave., southerly	300	12"	Clay }	
	298	10"	Clay }	366.86
Montmorenci st. to Lex- ington ave.....	354	2'-2"x3'-3"	Con.	1,468.20
†Montmorenci st., north- erly across private land to Chapin terrace....	377	2'-10"x4'-3"	Con.	2,758.01
Pratt st., southerly.....	149	10"	Clay	218.09
				5,515.47

* Sanitary sewer.

† Elliptical.

** Storm water sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Mattoon st., Chestnut to Salem st.....	356 87	1'-4"x2'-0" 15"	Brick } Cem. }	\$778.21
Maynard st., State st. to Shattuck ave.....	431 400	15" 12"	Clay } Clay }	\$670.82
*Shattuck ave., northerly.	1,029	10"	Clay	741.18
				1,412.00
McKnight st., Catharine to Sherman st.....	255 30	15" 15"	Cem. Clay	421.42 56.78
Catharine to Bowles st...	141	10"	Cem.	67.27
	26	10"	Clay	75.32
Bowles st. to Girard ave..	119	12"	Cem.	81.85
	263	10"	Clay	233.51
Mechanic st., Water st., westerly.....	302 20	12" 8"	Cem. Clay	205.25 72.99
				936.15
Medford st., Birnie ave., easterly.....	390 183	12" 10"	Clay } Clay }	278.24 367.29
Melrose st., sewer between Hickory and Melrose st.	429	18"	Clay	
Eastern ave. to Walnut st.	263 558	15" 10"	Clay Clay	
Marshall place, Eastern ave. to Walnut st.....	415 169	10" 8"	Clay } Clay }	1,791.93
Cottage ave., Melrose st. to Marshall place.....	74	12"	Clay	
Merrick ave., King st., southerly.....	275 24	12" 12"	Cem. Clay	48.50 29.26
				77.76
Merwin st., North Main to Chestnut st.....	774	15"	Clay	52.25
Middlesex st., Wilbraham road to Marlborough st.	296 304 474	15" 12" 10"	Clay } Clay } Clay }	945.92
Milford st., Farnsworth to Athol st.....	295	15"	Clay	690.49
Mill river, intercepting sewer, Mill river to Locust st.....	370 691 587	5'-3" cir. 4'-0" cir. 4'-0" cir.	Brick } Brick } Brick }	6,066.64
Locust to Hickory st....	131 1,743 779 1,611	3'-6"x5'-3" 5'-9" cir. 4'-3" cir. 3'-3" cir.	Brick } Brick } Brick }	42,706.00

* Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
*in Mill and Hickory sts.	833	2'-2"x3'-3"	Brick	\$9,355.23
*Hickory st. to Gunn square brook by north- erly shore of Water- shops pond.....	4,495	2'-2"x3'-3"	Brick	45,545.71
				103,673.58
Mill st., Main st., easterly..	236	8"	Cem.	75.45
Locust to Pine st.....	943	2'-6"x3'-9"	Brick	4,764.79
Knox to Maple st.....	352	18"	Clay	668.24
Dickinson st., easterly...	325	24"	Clay	651.69
				6,160.17
Miller st., Armory st., east- erly.....	598	20"	Clay	2,216.18
	304	18"	Clay	
	300	15"	Clay	
	236	12"	Clay	
Monmouth st., Dorchester st., northerly and east- erly.....	199	12"	Clay	218.15
	171	10"	Clay	121.75
Yale st., westerly.....	64	12"	Clay	45.95
	278	10"	Clay	281.47
Berkeley st., northwest- erly.....	350	12"	Clay	235.62
				902.94
Monroe st., Hancock st. to Eastern ave.....	611	18"	Cem.	1,983.29
	789	15"	Cem.	
	316	12"	Cem.	
Eastern ave. to Colton st.				
Monson ave., Greene st., northerly.....	200	8"	Clay	....
Montmorenci st., Chest- nut to Massasoit st....	64	12"	Clay	74.82
	612	2'-10"x4'-5"	Con.	2,725.07
				2,799.89
Montpelier st., Main to Niagara st.....	297	24"	Clay	1,149.00
Montrose st., State to Burr st.....	338	15"	Clay	75.74
	217	12"	Clay	
	329	10"	Clay	
Moore st., Plainfield st., westerly.....	299	12"	Clay	785.36
	435	10"	Clay	
Mooreland st., Carew st., northerly to Van Horn ave.....	601	18"	Clay	1,529.16
	301	15"	Clay	
	299	12"	Clay	
	212	10"	Clay	

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Morgan st., Garden brook to Main st.....	252 25	12" 18"	Cem. Cem.	\$199.08 48.07
Garden brook to North st.	634	18"	Clay	1,460.31
Morningside Park, White st., easterly.....	392	15"	Clay	\$1,707.46 503.67
Morrill ave., Carew st., northerly.....	214	10"	Clay	212.00
Morris st., Main st., east- erly.....	915 496	2'-0"x3'-0" 12"	Brick Cem.	2,942.83 359.07
Mountainview st., Forest Park ave., easterly....	297 297	12" 10"	Clay Clay }	3,301.90 28.19
Mulberry st., Maple st., easterly and northerly..	426 270 629 246	15" 12" 12" 10"	Clay Clay Cem. Clay	885.41 595.59 233.59
west from Ridgewood ter- race.....	144	15"	Clay	....
Murray Hill ave., Liberty st., northerly.....	....	....	Clay	1,714.59 195.06
Myrtle st., Card-factory Pond brook, northerly..	107 237	10" 8"	Clay Clay }	69.76
Myrtle st., I. O., Main to Worcester st.....	377	24"	Clay	1,003.44
Worcester st., southerly..	378	10"	Clay	355.34
Berkshire st., southerly...	180	10"	Clay	189.63
Hampshire to Essex st....	434	10"	Clay	425.48
Narragansett st., Lexing- ton ave., northerly....	320 219	12" 10"	Clay Clay }	1,973.89 657.47
Lexington ave., southerly	250 251	12" 10"	Clay Clay }	458.65
Nelson ave., Greene st., northerly.....	310	10"	Clay	1,116.12
Lebanon to King st.....	188 67	10" 10"	Cem. Clay	421.30 143.78 110.87
Nelson st., Nursery st., easterly.....	308	24"	Clay	675.95
New st., E. Court st., north- erly.....	237 33	12" 8"	Cem. Clay	307.75 14.18
Dwight st., westerly....	164	10"	Clay	272.59
Newbury st., Carew st. to Sherman ave.....	1,070	10"	Clay	594.52 1,138.70
Newland st., Plainfield st., westerly.....	350 349 555	18" 15" 12"	Clay Clay Clay }	2,018.75

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Newman st., Knox st., westerly.....	174 127	12" 10"	Clay } Clay }	\$506.69
Niagara st., Montpelier to Saratoga st.....	220	18"	Clay	\$539.50
Montpelier to Oswego st.	146	18"	Clay	358.02
				897.52
Noble st., North Main to Chestnut st.....	514	15"	Clay	1,074.99
Noel ave., Mill to Oakland st.....	204 146 380 486 252	20" 18" 15" 12" 10"	Clay } Clay } Clay } Clay } Clay }	2,512.92
Orange st., northerly....	30	12"	Clay	32.29
				2,545.21
Norfolk st., Wilbraham rd., southerly.....	300 300 229	15" 12" 10"	Clay } Clay } Clay }	566.06 155.85
				721.93
North st., Ferry st., north- erly.....	148	10"	Clay	223.34
Carew st., northerly....	190	8"	Cem.	84.88
Church to Grosvenor st.	68	18"	Cem.	157.13
Morgan to Ringgold st..	198	18"	Clay	876.47
Osgood to Hebron st....	130 165	18" 10"	Clay } Clay }	426.85
Bancroft st. to Brookline ave.....	302	18"	Clay	411.55
Bancroft st., northerly..	153 64	12" 12"	Cem. } Clay }	217.15
Jefferson ave., northerly.	233	8"	Clay	197.21
Calhoun st., northerly...	256	8"	Clay	48.13
Waverly to Grove st....	362	12"	Clay	302.86
Harriet st., southerly....	86	8"	Clay	.....
Harriet to Cumberland st.	304	10"	Clay	389.10
				3,334.67
Northampton ave., Wil- braham rd., southerly.	1,101	12"	Clay	877.47
*Gunn square, northerly	126	10"	Clay	118.79
*Gunn square to King st.	249 202	12" 10"	Clay } Clay }	340.32
*Gunn square, southerly.	459	8"	Clay	484.87
†Gunn square to Beverly st.....	173 185	18" 12"	Clay } Clay }	1,168.89
†Gunn square to King st.	313 322	24" 20"	Clay } Clay }	2,411.85
				5,402.19

* Sanitary sewer. † Storm water sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
North Church ave., Cook's				
ave., easterly	209	10"	Cem. }	
Cook's ave., westerly (for				
cost see Cook's ave.)...	133	10"	Cem. }	...
No. Main st., Morgan st.,				
southerly	232	8"	Clay	\$232.92
Morgan st., northerly	173	8"	Clay	90.69
Osgood st., southerly	199	10"	Clay	649.04
Arch to Osgood st.	730	15"	Cem.	713.66
*Arch st. to Jefferson ave..	185	2'-2"x3'-3"	Brick	974.27
Jefferson ave. to Grove st.	359	24"	Clay	
	420	20"	Clay	
	285	15"	Clay	2,568.01
Grove st., northerly	170	12"	Clay	228.45
Douglas to Harriet st.	551	1'-8"x2'-6"	Brick	1,874.35
Harriet to Waverly st.	250	24"	Clay	470.75
Douglas to Eagle st.	326	2'-4"x3'-6"	Brick	
	272	1'-10"x2'-9"	Brick	1,840.24
Eagle to Walter st.	296	24"	Clay	952.02
Wason ave. to Walter st..	215	2'-0"x3'-0"	Brick	860.00
	349	1'-8"x2'-6"	Con.	1,577.72
	155	24"	Clay	
	204	15"	Clay	1,291.96
Wason ave., northerly ...	600	12"	Clay	535.43
Chicopee line, southerly..	106	15"	Clay	184.06
	201	15"	Clay	
	199	12"	Clay	812.39
				\$15,853.96
Norwood st., Main to Han-				
over st.	1,051	12"	Clay	1,891.29
Nursery st., Liberty to				
Franklin st.	694	2'-8" cir.	Brick	2,284.52
Franklin st., northerly ...	587	2'-8" cir.	Brick	....
				2,284.52
Oak st., Union to State st..				
Union to Tyler st.	741	2'-0"x3'-0"	Con.	3,092.11
	220	18"	Clay	
	268	15"	Clay	752.00
Walnut to Tyler st.	177	18"	Clay	339.99
Oak st., I. O., Chicopee				
river to Main st.	684	4'-0" cir.	Con.	4,404.88
north from Main st.	179	15"	Cem. }	
	171	12"	Cem. }	637.00
Main st., southerly	590	2'-2"x3'-3"	Brick	2,345.84
brick sewer to Hampshire				
st.	797	24"	Clay	1,652.79
Hampshire st., southerly .	285	18"	Clay	
	300	15"	Clay	1,562.43
	400	12"	Clay	
				10,602.94

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Oak Grove ave., State to Center st.....	349	18"	Clay	.....
	327	15"	Clay	
	254	12"	Clay	
Center st., northerly.....	621	10"	Clay	\$294.84
Bay st., southerly.....	350	18"	Clay	1,381.91
	350	15"	Clay	
	301	12"	Clay	
	325	10"	Clay	
				\$1,676.75
Oak Grove Park, Center st., westerly.....	144	10"	Clay	157.99
Oakland st., Belmont ave., southerly.....	311	10"	Clay	330.77
Belmont ave. to Dickin- son st.....	895	24"	Clay	2,249.94
Dickinson to Orange st.	254	24"	Clay	1,619.20
	350	18"	Clay	
	170	12"	Clay	
	218	8"	Clay	
Allen to Orange st.....	625	18"	Clay	110.79
	304	15"	Clay	1,569.22
	193	12"	Clay	
	404	10"	Clay	
	280	12"	Clay	
Sumner ave. to Garfield st.....	221	10"	Clay	468.60
				6,348.52
Olive st., Eastern ave. to Logan st.....	540	10"	Clay	481.41
Orange st., Bailey square to Euclid ave.....	1,119	3'-0" cir.	Con.	6,744.60
Euclid ave. to Oakland st	697	24"	Clay	1,973.44
Oakland st., easterly.....	583	8"	Clay	1,240.87
White st., westerly.....	381	12"	Clay	
	649	10"	Clay	
	924	10"	Clay	
White st., easterly.....				9,958.91
Orchard st., Plainfield st., westerly.....	325	20"	Clay	1,061.27
	301	15"	Clay	
	297	12"	Clay	
	494	10"	Clay	
Orchard st., I. O., South st., southerly.....	275	12"	Clay	1,123.49
	350	10"	Clay	
Orlando st., Sumner ave., southerly.....	127	12"	Clay	374.83
	240	10"	Clay	460.95
Belmont ave., northerly..	246	12"	Clay	
	193	10"	Clay	835.78

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Orleans court, Orleans st., westerly.....	205	8"	Clay	....
Orleans st., Union st., northerly.....	39	12"	Cem.	\$36.23
	310	12"	Clay	456.19
	330	10"	Clay	
Tyler st., northerly.....	188	10"	Cem.	187.74
Pendleton ave., northerly.	231	12"	Cem.	327.73
Ormond st., Belmont to Sumner ave.....	275	10"	Clay	\$1,007.89
*Osborne terrace, Page blvd. to Bowles park..	1,414	10"	Clay	252.85
Osgood st., Garden brook to Main st.....	257	15"	Clay	547.77
Garden brook to North st.	340	24"	Clay	2,055.99
	340	20"	Clay	
				2,603.76
Oswego st., Niagara st., easterly.....	256	15"	Clay	
	259	12"	Clay	1,309.66
	246	10"	Clay	
Oxford st., Riverview ter- race, northerly.....	63	12"	Clay	....
	227	12"	Clay	549.19
	291	10"	Clay	
Ozark st., Grand ave., southerly.....	456	10"	Clay	549.19
				61.80
*Page boulevard, St. James ave. to Edendale st....	4,817	24"	Clay	
	1,830	20"	Clay	22,208.48
Palm st., Crown st., north- erly.....	320	10"	Clay	351.32
Palmer ave., Locust st., easterly.....	351	18"	Clay	
	337	15"	Clay	1,190.78
	14	12"	Cem.	....
				1,190.78
Park st., Main to Willow st.	395	24"	Clay	1,609.31
Willow to Maple st.....	200	24"	Clay	1,431.05
	557	18"	Clay	
				3,040.36
Parker st., I. O., Chicopee river to Main st.....	32	24"	Clay	
	221	12"	Clay	261.81
Main st., southerly.....	1,292	24"	Clay	3,284.90
†Loon pond to B.&A.R.R.	1,227	12"	Clay	1,266.36
				4,813.07

*Sanitary sewer. †Surface drainage only.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Parkside ave., Carew st. to Van Horn ave.....	350	18"	Clay	\$1,198.20
	350	15"	Clay	
	351	12"	Clay	
	300	10"	Clay	
Parkwood st., Sumner ave., southerly.....	215	12"	Clay	70.08
	204	10"	Clay	
Pasadena st., White st., southerly.....	156	12"	Clay	\$325.65
	291	10"	Clay	
Johnson st., northerly...	358	10"	Clay	282.96
Johnson st., southerly...	391	10"	Clay	369.66
				978.27
Pasco road, I. O., Essex st., southerly.....	724	10"	Clay	607.80
Patton st., Garden brook to Main st.....	214	10"	Clay	173.73
Garden brook, easterly...	352	18"	Clay	1,615.37
	349	15"	Clay	
	537	12"	Clay	
				1,789.10
Peabody lane, Willow st., westerly.....	292	10"	Clay	332.17
Pearl st., Chestnut to Spring st.....	514	24"	Clay	1,792.62
	447	20"	Clay	
Spring st., easterly.....	190	1'-6" cir.	Brick	96.16
				1,888.78
Pease st., Catharine to Bowles st.....	250	12"	Clay	50.58
Pecousic ave., Mill river to Main st.....	352	2'-8"x4'-0"	Con.	2,285.30
Main st., southerly.....	549	20"	Clay	1,587.94
York st., southerly.....	302	18"	Clay	1,972.19
	300	15"	Clay	
	228	12"	Clay	
				5,845.43
Penacook ave., Governor to Home st.....	106	12"	Clay	76.42
Wait to Langdon st....	97	15"	Clay	159.48
				235.90

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Pendleton ave., Walnut to Hancock st.....	287 524 429	18" 15" 12"	Cem. } Cem. } Cem. }	\$1,663.94
Hancock st. to Eastern ave.....	600 793	18" 15"	Cem. } Cem. }	
Phoenix st., Liberty st., easterly.....	236 250 89	18" 15" 10"	Clay } Clay } Clay }	840.32
Phoenix terrace, Kendall ave. to Freeman terrace	300 250 251	15" 12" 10"	Clay } Clay } Clay }	
Freeman terrace to New- bury st.....	243 254	12" 10"	Clay } Clay }	
Pierce court, Pendleton ave., southerly.....	166	10"	Clay	1,903.38
Pine st., Mill to Cedar st..	740 1,529 500	2'- 8"x3'-9" 3'- 6"x5'-3" 3'-10"x5'-9"	Brick } Brick } Brick }	13,684.58
Cedar to Walnut st.....	62 884 631	18" 15" 12"	Cem. } Cem. } Cem. }	
Pine st., I. O., Main st., easterly.....	1,896	24"	Clay	15,493.85
Pine st. court, Pine st., easterly.....	348	10"	Cem.	4,170.03
Pineywoods ave., Wash- ington blvd., north- easterly.....	439 263	15" 12"	Clay } Clay }	497.39
Magnolia terrace, westerly	350	10"	Clay	
Magnolia terrace to Wash- ington road.....	343 404	20" 15"	Clay } Clay }	....
Washington road to For- est Park ave.....	341	12"	Clay	
Plainfield st., Sargeant to Fulton st.....	414 537 456 244	18" 15" 12" 10"	Clay } Clay } Clay } Clay }	2,525.13
Washburn to West st....	154 295	12" 10"	Clay } Clay }	
				540.32

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Washburn to Division st..	331	2'-8"x4'-0"	Brick	\$1,652.00
	303	2'-6"x3'-9"	Brick	2,464.93
	287	2'-4"x3'-6"	Brick	4,853.22
	294	2'-2"x3'-3"	Brick	
	290	24"	Clay	1,036.73
Rowland to Division st...	648	2'-2"x3'-3"	Con.	3,548.32
	299	24"	Clay	1,419.29
	208	15"	Clay	
Rowland st. to Talcott	288	24"	Clay	1,354.45
ave., ...	299	20"	Clay	
Talcott ave., northerly...	216	10"	Clay	303.96
Laurel ave. to Demond				
ave., ...	228	12"	Clay	391.86
Wason to Demond ave...	304	24"	Clay	1,314.80
	249	20"	Clay	
	53	18"	Clay	
				\$21,447.49
Pleasant st., Bay st.,				
southerly.....	296	12"	Cem.	249.74
Plymouth st., Fulton st.,				
easterly.....	375	10"	Clay	196.59
Pomona st., Sumner ave.,				
northerly	580	12"	Clay	459.94
	297	10"	Clay	204.92
				664.86
*Porter ave., St. James ave.				
to Alpha st.....	438	10"	Clay	1,027.21
Portland st., Birnie ave.,				
easterly.....	251	12"	Clay	351.35
	224	10"	Clay	
Portsmouth st.....	212	12"	Clay	348.70
Pratt st., Chestnut to				
Marvin st.....	350	15"	Clay	869.53
	299	12"	Clay	
Prescott st., Belmont ave.,				
northerly.....	340	10"	Clay	250.22
Prince st., King to Lebanon				
st.....	329	12"	Cem.	333.15
Princeton st., Bay to Am-				
herst st.....	103	18"	Cem.	289.08
	689	18"	Clay	724.15
	151	15"	Clay	177.72
Yale to Vassar st.....	665	12"	Cem.	74.75
St. James ave. to Cornell				
st.....	298	12"	Cem.	195.52
				1,461.22

* Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Priscilla st., White st.. westerly	220	10"	Clay	\$185.84
Private ways and private lands:				
*Albemarle st., easterly to Brook channel.....	135	3'-0" cir.	Con.	1,591.20
Armory Hill sewer from Armory st., through pri- vate grounds east of Ar- mory st. to Worthington st.....	150 900 249	2'-5"x3'-7½" 2'-8"x4'- 0" 2'-1"x3'-1½"	Brick Brick Brick }	5,318.04
Card-factory Pond, Wood- worth ave., westerly be- tween High and State sts. in front and around High school	751 492	12" 24"	Cem. Clay	\$408.75 848.26
High school to State st...	88	24"	Clay	192.35
				1,449.36
in front and around High School of Commerce and on private lands easterly.....	142 144 226	15" 12" 10"	Clay Clay Clay }	....
Cemetery brook, Morris st., easterly, north of Central st.....	174	24"	Clay	569.59
Chester to Hancock st....	218	8"	Clay	....
Garden brook sewer, north from Liberty st. to B. & M. R. R. via Arch st. about 300 feet east of Main st.....	2,936 766 1,303 236	5'-8" cir. 5'-0" cir. 4'-8" cir. 3'-0"x4'-6"	Brick Brick Brick Brick }	47,594.81
Worthington st., north- easterly to Lyman st., then via Railroad land to Armory st.....	3,274 952	4'-7½" cir. 4'-1" cir.	Brick Brick }	29,838.13
				77,432.94

*Storm water.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
East Springfield sewer, northerly and easterly from Albany st. through private land to Chico- pee road.....	1,920 760 160	3'-9" cir. 2'-6" cir. 2'-10"x4'-3" Elliptical	Con. Con. Con. }	\$17,567.09
*Gunn square brook sew- er, from Hickory st., through private land to Albemarle st.....	1,585	15"	Clay	1,401.20
Hickory to Melrose st. (see Melrose st.)	....	18"	Clay	....
Jefferson ave., passage- way in rear of lots on south side.....	135 518	2'-0"x3'-0" 12"	Brick Cem.	 \$364.84
Main to Dale st., between Hubbard ave. and Wil- liam st.....	655	12"	Cem.	441.92
Passageway, Ferry to Liberty st., 80 ft. east of Main st.....	210	12"	Clay	402.70
Potter place, State st., northerly.....	396 301 274	15" 12" 10"	Clay Clay Clay }	....
Sewer in ave. Hampden st. southerly, near Water st.....	111	12"	Clay	147.14
Springfield st. via Atwater Glen to Springfield st..	677 598 389 1,292 40 16	3'-6" cir. 3'-3" cir. 4'-3" cir. 3'-0" cir. 2'-0" cir. 2'-10"x4'-3'	Brick Brick Brick Brick Brick Brick }	14,614.89
Prospect st., Chestnut to Massasoit st.....	218 199 196	18" 15" 12"	Clay Clay Clay }	623.53
Massasoit st., easterly...	325 423	12" 10"	Clay Clay }	847.52
				1,471.05

* Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Pulaski alley, I. O., Parker st., easterly.....	225	12"	Clay	\$320.24
Pyncheon st.....	950	2'-0"x3'-0"	Brick	3,108.02
Quebec st., I. O., Lyons st., easterly.....	464	15"	Clay }	1,364.77
	242	12"	Clay }	
Queen st., Walnut to Han- cock st.....	634	12"	Cem.	758.86
Quincy st., Oak to Stebbins st.....	860	12"	Cem.	\$651.15
Hancock to Stebbins st...	522	12"	Cem.	549.58
Hancock st. to Eastern ave.....	637	18"	Cem. }	1,766.39
	765	15"	Cem. }	
Colton st. to Eastern ave.	208	10"	Clay	156.87
				3,123.99
Railroad st., Water st. underpass, easterly....	168	12"	Clay }	290.55
	208	12"	Clay }	
Randolph st., Maplewood terrace, easterly.....	250	12"	Clay }	22.96
	251	10"	Clay }	
Ranney st., Wilmont st., southerly.....	85	10"	Clay	96.04
Wilmont st., northerly...	200	10"	Clay	151.76
Johnson st., northerly....	301	12"	Clay }	426.13
	264	10"	Clay }	
Kensington ave., north- erly.....	206	10"	Clay	149.18
				823.11
Rapalus ave., I. O., Parker st., southerly.....	442	12"	Clay	448.05
Raymond ave., Carew st., northerly.....	277	10"	Clay	217.32
Redlands st., Page boule- vard to Oklahoma st...	1,058	10"	Clay	2,420.48
Reed st., State st., south- erly.....	219	12"	Clay }	244.74
	362	10"	Clay }	
Revere st., White st., south- erly.....	750	20"	Clay }	99.05
	250	10"	Clay }	
	209	8"	Clay }	
Richelieu court, Adams st., southerly.....	160	12"	Clay }	602.61
	315	10"	Clay }	
Richelieu place, Richelieu court, easterly.....	100	8"	Clay	....

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Ridgewood place, Mul- berry st., northerly....	400	12"	Clay	\$29.46
	76	10"	Clay	101.95
				\$131.41
Ridgewood terrace, Mul- berry st., westerly.....	226	10"	Clay	....
Union st., southerly.....	137	10"	Clay	162.13
				162.13
Rimmon ave., Greene lane to Weaver ramble.....	859	18"	Clay	....
Weaver ramble, north- erly.....	200	12"	Clay	....
Rimmon st., Hamburg st., northerly.....	251	12"	Clay }	787.19
	254	10"	Clay }	
Ringold st., North to Chestnut st.....	436	15"	Clay }	1,226.47
	312	12"	Clay }	
Ripley place, St. James ave., southerly.....	230	10"	Cem.	163.48
Rittenhouse terrace, Sumner ave. to Davis- ton ave.....	250	18"	Clay }	1,109.44
	249	15"	Clay }	
	249	12"	Clay }	
	128	10"	Clay }	
Riverview st., Riverview terrace to Chase ave...	63	10"	Clay	....
	310	10"	Clay	354.50
Forest Park ave., south- erly.....	299	10"	Clay	239.39
				593.89
Riverview terrace, Fort Pleasant ave., easterly.	298	15"	Clay }	36.21
	322	12"	Clay }	
	105	10"	Clay }	
Rochelle st., Wilbraham road, southerly.....	424	18"	Clay }	1,188.31
	200	15"	Clay }	
	260	12"	Clay }	
	175	10"	Clay }	
Rockland st., Sumner ave., northerly.....	549	12"	Clay	717.51
Rogers ave., I. O., Main st., southerly.....	97	15"	Clay }	356.39
	152	12"	Clay }	
	40	10"	Clay }	

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Roseland st., Plainfield st., westerly.....	350 350 241	18" 15" 12"	Clay Clay Clay	\$1,530.97
Rowland st., Conn. river to North Main st., includ- ing 630' in Douglas st..	579 51 1,247 1,330	5'-3" cir. 1'-8"x2'-6" 6'-6" cir. 6'-0" cir.	Brick Brick Brick Brick	
Rupert st., White st. to Kimberly ave.....	241 152	18" 15"	Clay Clay	
Ruskin st., Eleanor road, southerly.....	231 233	12" 10"	Clay Clay	422.04
Rutland st., Wilbraham road to State st.....	199	8"	Clay	
Rutledge ave., Main st., easterly.....	574	24"	Clay	126.40
Sachem st., Orange st., southerly.....	30	12"	Clay	\$35.31
Dickinson st., northerly..	330	10"	Clay	368.85
Sackett place, southerly of Worthington st....	128	12"	Clay	186.80
Salem st., Pearl st., south and east.....	283 99 290	18" 15" 12"	Cem. Cem. Cem.	879.36
*Sanford st.....	536	3'-2"x4'-9"	Brick	
Saratoga st., Niagara to Richelieu st.....	233 229 129 172	15" 12" 10" 12"	Clay Clay Clay Clay	
Niagara to Main st.....				353.73
*Sargeant st., Fulton to Main (cost shown under Clinton st.).....	920	4'-6"x6'-9"	Brick	1,377.70
School st., Union to Mul- berry st.....	560	15"	Clay	620.95
Union st., northerly.....	258	10"	Clay	286.32
Scott st., White to Pomona st.....	300 347	12" 10"	Clay Clay	468.68
Searle place, Walnut st., easterly.....	178	10"	Clay	

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Seventh st., Fulton to Main st.....	830	12"	Cem.	\$895.80
Sewer in avenue (see private ways).				
Sewer (see private ways).				
Shamrock ave., Orange st., northerly.....	30	12"	Clay	26.58
Sharon st., Garden brook to Main st.....	209	15"	Clay	\$945.67
	151	12"	Clay	
Garden brook, easterly...	301	20"	Clay	2,355.50
	300	18"	Clay	
	231	15"	Clay	
	232	12"	Clay	
				3,301.17
Shattuck st., Maynard st. to Willard ave.....	200	10"	Clay	....
	143	8"	Clay	
Willard ave., easterly....	210	8"	Clay	75.40
				75.40
Sheffield st., Shillingford st., northerly.....	209	10"	Clay	234.97
Shefford st., Glenwood sewer southerly towards Springfield st.....	293	12"	Clay	628.75
	350	10"	Clay	
easterly towards Spring- field st.....	200	12"	Clay	790.42
	225	10"	Clay	
*Springfield st., easterly.	75	3'-2"x4'-9"	Con.	1,013.45
*Springfield to Caseland st.....	399	4'-9"x3'-2"	Con.	4,928.50
				7,361.12
Sheldon st., Birnie ave. to N. Main st.....	311	12"	Clay	18.49
	317	10"	Clay	
Sherman ave., Kendall ave. to Newbury st...	550	15"	Clay	1,684.17
	550	12"	Clay	
	280	10"	Clay	
Sherman st., Bay to Cla- rendon st.....	175	12"	Cem.	571.12
Bay to McKnight st.....	443	12"	Cem.	
State to McKnight st....	301	18"	Clay	1,314.14
	301	15"	Clay	
	544	12"	Clay	
				1,885.26

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost.
Shillingford st., Eastern ave. to Sheffield st....	640	12"	Clay	\$464.74
Silver st., Armory st., east- erly.....	302 297 251	15" 12" 10"	Clay Clay Clay	733.99
Smith st., Knox to Dorne st. Dorne st., westerly.....	199 107	12" 10"	Clay Clay	
Somerset st., Dickinson st., westerly.....	317 305 420	15" 12" 10"	Clay Clay Clay	
Sorrento st., Sumner ave., northerly.....	325	12"	Clay	376.55
Grenada terrace, northerly	367	10"	Clay	252.09
				628.64
South st., I. O., Healey ave. to East st.....	151 221	12" 10"	Clay Clay	479.71
Healey to Orchard ave...	125	12"	Clay	
				763.56
Spencer st., Sumner ave., southerly.....	282 315	12" 10"	Clay Clay	487.45
Spring st., south from Ly- man st.....	281 130	15" 12"	Cem. Cem.	
Worthington to State st..	470 640 644	18" 15" 12"	Cem. Cem. Cem.	2,592.14
Worthington st., northerly Worthington to Summer st.....	132 183 *49	12" 5'-0" cir. 4'-3"x6'-0"	Clay Brick Brick	
				87.28
Springfield st., Atwater terrace, to northerly end of Shefford st.....	892 360 413 286 437	20" 18" 15" 12" 10"	Clay Clay Clay Clay Clay	3,546.39
†Glenwood sewer south- erly to Shefford st....	135	3'-2"x4'-9"	Con.	
Glenwood sewer northerly to Hamburg st.....	1,294	24"	Clay	
				3,889.98
				9,280.49

* Segmental. † Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Springfield st. and Glen- wood (see private ways)				
Spruce st., Central st., northerly.....	600	12"	Cem.	\$609.90
Spruceland ave., Firglade ave., westerly.....	158	10"	Clay	\$268.87
Magnolia terrace, westerly	67	8"	Clay	.....
Beechwood ave., easterly.	240	10"	Clay	395.58
Beechwood ave., westerly.	300	10"	Clay	621.89
Longhill st., easterly.....	450	10"	Clay	410.40
				1,696.74
Stafford st., Armory st., westerly.....	402	10"	Clay	367.88
State st., Water st., west- erly.....	70	12"	Cem.	45.27
	91	12"	Cem.	71.19
	82	12"	Clay	83.01
Water to Main st.....	907	18"	Cem.	1,199.78
Main to Dwight st.....	636	18"	Cem.	1,433.50
*Dwight st. to High school	29	2'-8"x4'-0"	Brick	4,897.66
	265	2'-2"x3'-3"	Brick	
	417	2'-0"x3'-0"	Brick	
At High school, connect- ing old with new.....	54	24"	Clay	161.88
High school to Elliott st..	305	2'-0" cir.	Brick	469.65
High school to Walnut st.	726	2'-0"x3'-0"	Con.	6,442.79
	306	2'-2" cir.	Con.	
	1,440	2'-0" cir.	Con.	
connecting new with old..	54	18"	Clay	1,678.37
Walnut to Oak st.....	250	18"	Clay	
	253	15"	Clay	
	348	12"	Clay	1,062.40
Federal st., easterly.....	695	2'-0" cir.	Brick	
	130	12"	Clay	
Oak to Buckingham st. ..	2,110	18"	Cem.	2,848.93
Hancock to Sherman st...	1,147	3'-4"x5'-0"	Brick	13,586.64
Sherman to Mason st....	492	3'-0"x4'-6"	Brick	
Mason to Andrew st.....	726	3'-0"x4'-6"	Brick	
Andrew st. to Oak Grove ave.....	937	2'-10"x4'-3"	Brick	10,818.12
east from Oak Grove ave. to Cortland st.....	548	2'-4"x3'-6"	Brick	5,056.93
	283	2'-2"x3'-3"	Brick	
	352	2'-0"x3'-0"	Brick	
Cortland st., easterly....	355	24"	Clay	4,616.11
	112	18"	Clay	
	3,399	12"	Clay	
				54,746.58

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
State st. terrace, Shattuck ave., southerly.....	254	10"	Clay	\$217.57
Stearns square (West road- way), Bridge st., north- erly.....	172	12"	Clay	\$205.83
Worthington st., southerly	201	12"	Clay	523.75
				729.58
Stearns square (East road- way), Bridge st., north- erly.....	167	8"	Clay	67.00
Worthington st., southerly	148	12"	Clay	342.98
				409.98
Stebbins st., Union to	300	12"	Clay }	596.89
State st.....	293	10"	Clay }	
Union st., southerly.....	151	10"	Clay }	196.80
				793.69
Sterns terrace, Central st., northerly.....	393	12"	Clay	605.10
*Stevens st., Page boule- vard to Eureka st....	1,164	10"	Clay	1,248.43
St. James ave., State st., northerly.....	191	18"	Clay }	
	467	12"	Clay }	906.01
	123	10"	Clay }	
Bay st. to Ripley place...	91	12"	Cem.	135.23
Florida st. to Ripley place	469	12"	Cem.	500.89
Florida st., northerly....	417	18"	Cem.	1,073.90
	300	12"	Cem.	
Clarendon to Westminster st.....	248	15"	Cem.	404.60
Clarendon st., northerly..	138	8"	Clay	64.82
Dartmouth to Harvard st.	385	2'-0"x3'-0"	Brick	2,738.53
Harvard to Princeton st..	528	24"	Clay	1,799.94
Princeton st., northerly..	308	18"	Clay }	965.55
	249	15"	Clay }	
	57	12"	Clay }	
Chicopee road to Page boulevard.....	127	24"	Clay	396.52
*Page boulevard to Porter ave.....	315	18"	Clay	790.13
				9,776.12
Stockbridge st., Main st., easterly.....	777	18"	Cem.	1,101.77
Stockman st., Carew st. to Newbury st.....	879	20"	Clay }	
	260	12"	Clay }	2,931.18
	256	10"	Clay }	

* Sanitary sewers.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Stratford terrace, White st., easterly.....	190	12"	Clay }	\$562.32
Suffolk st., Wilbraham road, southerly.....	314	10"	Clay }	
	300	15"	Clay	\$294.06
	300	12"	Clay	
	795	10"	Clay }	
				596.52
				890.58
Sullivan st., Armory st., easterly.....	395	12"	Clay	64.10
*Summer st., Spring to Armory st.....	44	4'-3"x6'-0"	Brick }	24,048.88
	†1,344	4'-2"x6'-3"	Brick }	
	†1,093	2'-10"x4'-3"	Brick }	
	†750	3'- 8"x5'-6"	Brick }	
Summit st., Worthington to Federal st.....	204	12"	Clay }	744.48
	263	10"	Clay }	
Sumner ave., Fort Pleas- ant ave. to Longhill st..	448	12"	Clay }	815.24
	358	10"	Clay }	
Fort Pleasant ave. to Ran- dolph st.....	673	2'- 0"x3'-0"	Brick }	7,968.46
Randolph st. to Washing- ton road.....	360	1'-10"x2'-9"	Brick }	
Washington road to Forest Park ave.....	360	1'- 8"x2'-6"	Brick }	
Forest Park ave. to Green- leaf st.....	367	1'- 6"x2'-3"	Brick }	
Greenleaf st. to Belmont ave	355	20"	Clay }	
	851	18"	Clay }	2,915.88
	736	15"	Clay }	
	272	12"	Clay }	
	426	10"	Clay }	
	100	8"	Clay }	
Belmont ave., easterly...	100	8"	Clay }	37.49
†Dickinson to White st....	2,219	2'-8"x4'-0"	Brick	11,531.37
White st. to Castle ave ..	565	2'-2"x3'-3"	Brick	2,391.46
	1,110	2'-2"x3'-3"	Con.	2,355.03
	739	15"	Clay }	1,918.96
	879	12"	Clay }	
				29,933.89
Sumner terrace, Sumner ave., northerly.....	252	12"	Clay }	462.38
	220	10"	Clay }	
Sunapee st., White st. to Blaine st.....	376	15"	Clay }	1,206.27
	297	12"	Clay }	
	337	10"	Clay }	

* Segmental. † Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
*Sycamore st., Acorn to Bay st.....	899	8"	Clay	\$352.24
Sylvan ave., Belmont ave. to Fountain place.....	294 251 249	20" 18" 15"	Clay Clay Clay	\$1,272.55
Fountain place, southerly	151	12"	Clay	
				266.92
				1,539.47
Symonds ave., Worthing- ton to Bridge st. (in- cludes cost of Bond pl.)	300	15"	Cem.	696.89
Taft ave., Sylvan to Wood- lawn st.....	247	10"	Clay	201.65
Talcott ave., Fisk ave. to Plainfield st.....	362 316	15" 12"	Clay Clay	549.57
Taylor st., Main to Chest- nut st.....	330 321 197 50 341	20" 18" 15" 12" 12"	Clay Clay Clay Clay Cem.	3,747.24 51.79 463.50
				4,262.53
Temple st., Maple to School st.	304 300 345	15" 12" 10"	Clay Clay Clay	1,127.60
outlet into High school sewer.....	169	15"	Clay	
				171.71
				1,299.31
Tenth st., Garden brook, easterly.....	300 302 421 4	18" 15" 12" 8"	Clay Clay Clay Clay	1,293.88
Terrence st., Union to State st.....	374 313 48	12" 10" 10"	Clay Clay Cem.	565.26 34.02
				599.28
Thomas st., Birnie ave., easterly.....	451	10"	Clay	364.91
Thompson st., Worthing- ton st., southerly.....	603	12"	Cem.	638.27
St. James ave. to Bay st..	703	15"	Cem.	896.56
State to Bay st.....	852	12"	Cem.	757.02
				2,281.85

*Sanitary sewer.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Thorndyke st., Sumner ave., southerly.....	353 398	12" 10"	Clay } Clay }	\$975.10
Tracy st., Franklin st., southerly.....	14 367	10" 10"	Clay Clay	\$15.48 222.88
				238.36
Trafton road, Dickinson st., westerly.....	351 460 140	18" 15" 12"	Clay } Clay } Clay }	923.68
Trenton st., Dickinson st. to Commonwealth ave.	146	10"	Clay	125.74
Trillium st., White to Greenbrier st., ...	345	10"	Clay	234.62
Trinity terrace, Sumner ave. to Morningside park	300 416 419	12" 10" 15"	Clay } Clay } Clay }	533.91
Tyler st., Oak to Orleans..	298	15"	Clay	769.02
Orleans to Hancock st....	171 492	12" 12"	Clay } Clay }	653.33 571.84
Hancock st. to Eastern ave.....	601 795	18" 15"	Cem. Cem.	815.47 718.71
Eastern ave., easterly....	251	10"	Cem.	199.75
Underwood st., Franklin st., northerly	483	10"	Clay	3,728.12 567.41
Union st., submerged out- let.....	165 48	24" 24"	Wood C. Iron	1,604.45 391.23
Conn. river to Main st...	1,610 53	3'-4"x5'-0" 2'-0"x3'-0"	Brick } Brick }	8,806.18
Main to Oak st	*718 951 1,021 1,504	3'-2"x4'-9" 2'-8" cir. 2'-3" cir. 2'-4"x3'-6"	Con. Con. Con. Con.	13,447.59
Oak to Orleans st.....	404	15"	Cem.	7,638.58 467.96
Hancock to Stebbins st...	261 335	2'-0"x3'-0" 1'-10"x2'-9"	Brick } Brick }	2,321.08
Stebbins to Orleans st....	428	20"	Clay	788.30
Hancock st. to Eastern ave.....	600 800	18" 15"	Cem. Cem.	1,535.40
Eastern ave., easterly....	248	10"	Clay	182.22
				37,182.99
Van Horn place, Carew st., northerly ..	311	10"	Clay	541.21

* Elliptical.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Vassar st., Harvard st., northerly.....	550	12"	Cem.	\$153.37
Ventura st., Sumner ave., northerly.....	351	10"	Clay	\$289.51
Grenada terrace, northerly	341	10"	Clay	254.12
Vermont st., Converse to Pomona st.....	258	15"	Clay	543.63
	267	12"	Clay	558.98
	225	10"	Clay	
Converse st., easterly...	314	12"	Clay	
Vernon st., Water st., east- erly.....	589	15"	Cem.	772.37
Main st., westerly.....	216	12"	Cem.	310.68
	50	12"	Clay	328.78
Villa parkway, Wilbraham road, southerly.....	299	15"	Clay	1,411.83
	302	12"	Clay	785.41
Vine st., Main to Fulton st.	697	12"	Cem.	688.75
Vinton st., Liberty to Franklin st.....	357	12"	Clay	393.47
	262	10"	Clay	252.13
Virginia st., Dickinson st. to Trafton road.....	348	15"	Clay	645.60
	301	12"	Clay	770.73
	344	10"	Clay	
Wait st., Armory st. to Penacook ave.....	500	24"	Clay	2,422.92
	470	20"	Clay	
	250	18"	Clay	
	249	15"	Clay	
Walden st., Dickinson st., easterly.....	166	8"	Clay	174.46
Commonwealth to Bel- mont ave.....	296	10"	Clay	168.26
Walker st., Water st., west- erly.....	650	12"	Clay	342.72
Walnut court, Walnut st., westerly.....	211	10"	Clay	688.37
Walnut st., south from State st.....	69	1'-6"x1'-8"	Brick	85.23
north from Charter ave...	292	10"	Clay	418.30
Union st. to Charter ave..	279	12"	Cem.	482.50
Union to Oak st.....	558	12"	Clay	792.64
	17	12"	Cem.	20.50
Cedar to Pine st.....	1,142	2'-0"x3'-0"	Brick	4,986.58
Pine to Oak st.....	254	18"	Cem.	383.04

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Hancock to Cedar st. . . .	784	15"	Cem. }	\$1,289.38
Hancock st., southerly . .	180	12"	Cem. }	
north from Manhattan st.	249	10"	Clay	
Florence st., northerly . .	53	8"	Cem.	
Hickory to Florence st. . .	1,026	12"	Clay	1,006.69
				\$9,730.04
Walter st., Birnie ave. to North Main st.	385	12"	Clay	422.74
Waltham ave., Wilbraham road, southerly	911	12"	Clay	953.07
Wareham st., Grand ave., southerly	419	10"	Clay	21.24
Warner st., Fort Pleasant ave. to Longhill st. . . .	508	12"	Clay }	51.88
	198	10"	Clay }	
	89	10"	Clay }	
Warriner ave., Locust st., easterly	448	12"	Clay	51.88
Washburn st., Conn. river to B. & M. R. R.	1,758	7'-0" cir.	Brick	21,678.46
Washington boulevard, Longhill st. to P.ney- woods ave.	304	2'-4"x3'-6"	Brick }	5,032.68
	823	2'-2"x3'-3"	Brick }	
	308	18"	Clay	868.79
	200	15"	Clay	
	242	12"	Clay	
	330	10"	Clay }	
				5,901.47
Washington road, Sumner ave., southerly	460	10"	Clay	166.40
Pineywoods ave., north- erly	141	10"	Clay	149.77
	281	10"	Clay	316.17
Washington st., Dickinson st. to Commonwealth ave.	306	12"	Clay }	531.14
	215	10"	Clay }	
Itendale to Woodlawn st.	259	12"	Clay }	363.85
	208	10"	Clay }	
				894.99
Wason ave., Conn. river to Plainfield st.	451	3'-10"x5'-9"	Brick }	16,642.62
Plainfield st. to Fisk ave.	1,051	3'- 4"x5'-0"	Brick }	
Fisk to Birnie ave.	63	3' 2"x4'-9"	Brick }	
Birnie ave. to North Main st.	247	2'- 0"x3'-0"	Brick }	

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Water st., Gardner to Loring st.	474	1'-10"x2'-9"	Brick	\$1,219.79
Loring st., northerly.....	345	12"	Cem.	237.38
Union to Margaret st.....	721	2'- 0"x3'-0"	Brick }	2,367.61
Union st., northerly.....	868	18"	Cem. }	
Elm to State st.....	275	18"	Cem.	508.75
Elm to Pyncheon st.....	43	2'- 0"x3'-0"	Brick	198.00
	498	2'- 6"x3'-6"	Brick	2,949.29
Pyncheon st., northerly...	257	18"	Cem.	404.44
	329	15"	Cem.	460.60
	61	12"	Cem.	132.69
Worthington st., southerly	209	10"	Clay	444.76
Worthington to Hampden st.....	327	15"	Cem.	511.50
Hampden to Railroad st.	250	12"	Clay	497.29
Water st. underpass, Cypress to Railroad st. ...	359	18"	Clay	\$9,932.10
	236	15"	Clay	....
Waverly st., North Main to Chestnut st.	473	20"	Clay }	1,268.03
	487	10"	Clay }	
Weaver ramble, Rimmon ave., westerly and northerly	480	12"	Clay	....
Webster st., Liberty to Franklin st.	601	12"	Clay	505.99
Welcome place, Bay st., northerly	238	8"	Clay	17.84
Wellesley st., St. James ave. to Cornell st.	236	12"	Clay }	540.30
	224	10"	Clay }	
Wellington st., Wilbraham road, southerly	287	15"	Clay }	46.33
	244	12"	Clay }	
	291	10"	Clay }	
Wendell place, Main st., easterly	458	15"	Clay	134.39
* West st., Connecticut river to Plainfield st. ...	635	15"	Clay }	1,867.65
	511	12"	Clay }	
West Alvord st., Sumner ave. to Daviston ave. ...	153	24"	Clay }	
	268	20"	Clay }	
	550	18"	Clay }	1,546.17
	300	15"	Clay }	
	412	12"	Clay }	
Westernview st., Forest Park ave., easterly	468	12"	Clay }	539.60
	138	10"	Clay }	

* Stormwater.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Westford ave., Wilbraham road, southerly.....	300	15"	Clay	\$676.23
	300	12"	Clay	
	350	10"	Clay	
*Westford circle to King st.	541	12"	Clay	454.36
†Westford circle, north- erly.....	107	12"	Clay	91.09
†Gunn square, southerly.	112	12"	Clay	164.52
				\$1,386.20
*Westford circle, Alber- marle st. to Westford ave.....	786	12"	Clay	1,457.52
*Westford ave., southeast- erly to Westford circle.	194	12"	Clay	301.11
†Albemarle st. to North- hampton ave.....	433	3'-0"	Seg. Blk.	8,472.45
	602	2'-6"	Seg. Blk.	
	39	3'-0"	Con.	
				10,231.08
Westminster st., Bay to State st.....	300	15"	Clay	705.11
	300	12"	Clay	
	201	10"	Clay	
St. James ave., southerly.	773	12"	Cem.	794.10
				1,499.21
White st., Allen to Orange st.....	747	24"	Clay	1,829.93
	674	20"	Clay	1,729.93
	274	18"	Clay	
Orange st. to Dawson ave.	388	15"	Clay	389.27
	292	15"	Clay	300.87
Gordon st. to Dawson ave.	192	10"	Clay	237.91
Gordon st., southerly....	690	12"	Clay	746.74
	207	8"	Clay	84.45
Sumner ave. to Stratford ter.....	1,266	24"	Clay	2,104.72
Sumner ave. to Trillium st.....	1,028	20"	Clay	2,300.75
	166	18"	Clay	
	329	12"	Clay	
Belmont ave. to Trillium st.....	233	24"	Clay	1,189.60
	191	12"	Clay	
	210	10"	Clay	
Belmont ave. to Dwight road.....	1,178	2'-8"x4'-0"	Con.	5,324.32
Dwight road to Long- meadow line.....	179	24"	Clay	550.34
				16,788.83

*Sanitary sewer. † Stormwater.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Whiting st., Plainfield st., westerly.....	299 297 196	18" 15" 12"	Clay Clay Clay }	\$334.16
Whitney place, Water st., westerly.....	450	12"	Cem.	388.33
Whittier st., Sumner ave. to Longfellow terrace..	301 299 301 221	18" 15" 12" 10"	Clay Clay Clay Clay }	1,290.11
Wight place, Water st., easterly.....	175	10"	Clay	290.41
Wigwam place, Dickinson st., easterly.....	324	10"	Clay	463.06
Wilbraham ave., Wilbra- ham road, southerly ...	1,125	12"	Clay	\$1,117.21
Alden to Beverly st.....	999	10"	Clay	1,253.01
	1,180	8"	Clay	
†King st., southerly.....	318	12"	Clay	707.63
†King st., northerly.....	299	18"	Clay	1,596.36
	270	12"	Clay	
†Beverly st., southerly...	117	10"	Clay	251.60
†Beverly st., northerly...	262	10"	Clay	512.68
Wilbraham road, State st., easterly.....	248	12"	Cem.	157.79
State st. to Northampton ave.....	1,451	2'-0"x3'-0"	Brick	6,373.06
Northampton ave. to Bristol st.....	472 476 478 473 254 256	2'-6"x3'-0" 2'-4"x3'-6" 2'-2"x3'-3" 2'-0"x3'-0" 1'-10"x2'-9" 1'-8"x2'-6"	Brick Brick Brick Brick Brick Brick }	9,055.82
Bristol st., easterly	263 405	20" 12"	Clay Clay }	947.00
*Watershop Pond, westerly	204 318	24" 20"	Clay Clay }	836.60
Wilcox st., Water st., east- erly.....	548 327	15" 12"	Cem. Cem. }	1,000.75
Water st., westerly.....	463	12"	Cem.	313.82
Willard ave., State st., northerly.....	282 300 241	18" 15" 12"	Clay Clay Clay }	785.26

* Surface drainage only.

† Storm water sewer.

SEWER SYSTEM.—*Concluded.*

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Shattuck ave., southerly..	215	8"	Clay	....
William st., Water to Main st.....	875	12"	Cem.	\$918.26
	32	12"	Clay	125.28
Main to Dale st.....	351	12"	Clay	931.32
	311	10"	Clay	
Water st., westerly	76	15"	Cem.	609.09
	425	12"	Cem.	
				2,583.95
Willow st., Cross to State st.	413	12"	Clay	791.42
Cross to Park st.....	265	12"	Clay	378.17
Union to Park st.....	216	18"	Cem.	325.32
Union st. to Hubbard ave.	219	10"	Clay	204.39
				1,699.30
Wilmont st., Dickinson to Ranney st.....	349	18"	Clay	
	450	15"	Clay	
	386	12"	Clay	1,766.54
Winchester st.....	424	12"	Clay	431.64
Windsor st., Knox st., westerly.....	308	12"	Clay	
	266	10"	Clay	560.76
Winter st., Chestnut st., easterly.....	212	20"	Clay	986.83
Winthrop st., Main st., easterly.....	52	18"	Cem.	
	141	15"	Cem.	220.81
	310	15"	Clay	
	230	12"	Clay	1,045.76
Wolcott st., Armory st., northerly.....	220	10"	Clay	1,266.57
	206	10"	Clay	192.49
Liberty st., northerly....	138	10"	Clay	214.59
*Woodbine ave., Mill river intercepting sew- er to Baxter ave.	1,071	10"	Clay	407.08
†Woodlawn st., Belmont ave. to Carlton st....	760	2'-4"x3'-6"	Con.	993.00
Woodside terrace, Bel- mont ave., northerly...	451	10"	Clay	5,967.03
Forest Park ave., north- erly.....	307	10"	Clay	373.16
Woodworth ave., State st., southerly.....	199	12"	Clay	22.04
	131	10"	Clay	
Worcester ave., Plainfield st. to Fisk ave.....	854	15"	Cem.	395.20
				614.25
				295.09

* Sanitary sewer. † Egg Shape.

SEWER SYSTEM.—Continued.

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
Worcester st., I. O., Myrtle to Chestnut st.....	4	24"	Clay	\$945.80
	290	20"	Clay	
	382	2'-0"x3'-0"	Brick	
Chestnut to Holly st.....	670	1'-10"x2'-9"	Brick	1,283.00
Oak st., easterly.....	275	12"	Clay	2,398.09
	212	10"	Clay	
Pine st., easterly to Lyons st.....	546	20"	Clay	542.93
	224	18"	Clay	
	601	15"	Clay	
	249	10"	Clay	
†In Worcester st. and across private land near B. & A. R. R. bridge..	250	18"	Clay	2,639.71
Worthington st., sub- merged outlet.....	194	24"	Wood	906.76
	22	24"	C. Iron	1,883.04
*Conn. river to Main st...	1,038	5'-7"x7'-0"	Brick	176.25
*Main to Dwight st.....	821	5'-4"x7'-0"	Brick	33,510.28
Dwight to Garden brook.	566	4'-0"x6'-0"	Brick	
Garden brook to Spring st.	738	4'-3" cir.	Brick	
Spring st., branch north..	35	5'-0" cir.	Brick	4,361.35
Spring st., branch south..	47	2'-0"x3'-0"	Brick	
Spring st., easterly	40	18"	Cem.	614.35
	242	15"	Cem.	
	251	12"	Cem.	
	113	12"	Cem.	
Autumn st., westerly	145	10"	Cem.	118.78
near Sacketts ave.....	329	15"	Clay	111.47
West brook, easterly.....	217	12"	Clay	1,110.54
	231	15"	Clay	
West brook to Autumn st.	98	12"	Clay	727.56
Sacketts ave., westerly...	337	12"	Cem.	207.28
Sacketts to Kibbe ave....	794	15"	Clay	335.37
Kibbe ave. to Federal st.				826.90
Kibbe hollow, westerly to Magazine st.....	167	18"	Clay	381.28
Kibbe hollow to Bowdoin st.....	833	2'-2" cir.	Con.	3,644.54
near Magazine to Bow- doin st.....	125	2'-8"x4'-0"	Con.	21,193.17
	123	2'-8"x4'-0"	Brick	
	354	2'-1"x3'-1½"	Brick	
Bowdoin st. to St. James ave.....	359	3'-4"x7'-2"	Brick	
	1,307	3'-4"x6'-9"	Brick	
				69,202.16

* Elliptical. † Storm water sewer.

SEWER SYSTEM.—*Concluded.*

NAME OF SEWER	Length in Feet	Size	Ma- terial	Cost
X Court, Dickinson st., westerly and southerly.	34	10"	Clay	\$84.24
	192	10"	Clay	19.05
				\$103.29
Yale st., Dartmouth to Princeton st.....	350	24"	Clay	1,770.13
	359	18"	Clay	
	233	15"	Clay	
Princeton st., northerly..	712	12"	Clay	524.54
				2,294.67
York st.....	1,203	7'-0" cir.	Brick	13,988.16
Totals.....	802,173			\$1,878,048.85

NOTE.—Sewers constructed by the city on private land or ways are indexed under Private ways.

RECAPITULATION BY SIZES.

DESCRIPTION	Length in Feet	Sizes	Material
Segmental.....	93	6'- 0"x4'- 3"	Brick and cem. mortar.
Elliptical shaped.....	1,038	5'- 7"x7'- 0"	" " "
" ".....	821	5'- 4"x7'- 0"	" " "
" ".....	1,095	4'-10"x7'- 3"	" " "
" ".....	1,949	4'- 8"x7'- 0"	" " "
" ".....	1,170	4'- 6"x6'- 9"	" " "
" ".....	1,040	4'- 4"x6'- 6"	" " "
" ".....	2,340	4'- 2"x6'- 3"	" " "
" ".....	1,746	3'- 8"x5'- 6"	" " "
" ".....	830	3'- 4"x5'- 0"	" " "
" ".....	536	3'- 2"x4'- 9"	" " "
" ".....	819	3'- 0"x4'- 6"	" " "
" ".....	1,093	2'-10"x4'- 3"	" " "
" ".....	2,506	2'- 8"x4'- 0"	" " "
" ".....	5,778	2'- 2"x3'- 3"	" " "
" ".....	417	2'- 0"x3'- 0"	" " "
Egg shaped.....	566	4'- 0"x6'- 0"	" " "
" ".....	1,131	3'-10"x5'- 9"	" " "
" ".....	1,074	3'- 8"x5'- 6"	" " "
" ".....	3,512	3'- 6"x5'- 3"	" " "
" ".....	359	3'- 4"x7'- 2"	" " "
" ".....	1,307	3'- 4"x6'- 9"	" " "
" ".....	8,787	3'- 4"x5'- 0"	" " "
" ".....	1,056	3'- 2"x4'- 9"	" " "
" ".....	2,877	3'- 0"x4'- 6"	" " "
" ".....	953	2'-10"x4'- 3"	" " "
" ".....	364	2'- 9"x4'- 1½"	" " "
" ".....	2,391	2'- 8"x4'- 0"	" " "
" ".....	4,818	2'- 6"x3'- 9"	" " "
" ".....	498	2'- 6"x3'- 6"	" " "
" ".....	150	2'- 5"x3'- 7½"	" " "
" ".....	8,573	2'- 4"x3'- 6"	" " "
" ".....	8,688	2'- 2"x3'- 3"	" " "
" ".....	603	2'- 1"x3'- 1½"	" " "
" ".....	18,874	2'- 0"x3'- 0"	" " "
" ".....	4,921	1'-11"x2'- 9"	" " "
" ".....	2,432	1'- 8"x2'- 6"	" " "
" ".....	917	1'- 6"x2'- 3"	" " "
" ".....	669	1'- 4"x2'- 0"	" " "
Circular.....	3,017	7'-0"	" " "
".....	3,019	6'-8"	" " "
".....	1,330	6'-0"	" " "
".....	1,743	5'-9"	" " "
".....	3,842	5'-8"	" " "
".....	949	5'-3"	" " "
".....	2,257	5'-0"	" " "
".....	3,274	4'-7½"	" " "
".....	1,762	4'-6"	" " "

RECAPITULATION BY SIZES.—Continued.

DESCRIPTION	Length in Feet	Sizes	Material
Circular.....	3,362	4'-3"	Brick and cem. mortar.
".....	952	4'-1"	" " "
".....	2,399	4'-0"	" " "
".....	385	3'-9"	" " "
".....	677	3'-8"	" " "
".....	2,209	3'-3"	" " "
".....	2,549	3'-0"	" " "
".....	2,072	2'-8"	" " "
".....	1,520	2'-0"	" " "
".....	190	1'-6"	" " "
Elliptical.....	416	2'-10"x4'- 3"	Brick-concrete.
".....	245	3'- 0"x4'- 6"	" "
Segmental.....	60	5'- 0"x2'- 1"	Concrete.
Elliptical.....	385	4'-10"x7'- 3"	"
".....	399	4'- 9"x3'- 2"	"
".....	270	4'- 6"x3'- 0"	"
".....	1,085	4'- 2"x6'- 3"	"
".....	928	3'- 2"x4'- 9"	"
".....	612	2'-10"x4'- 5"	"
".....	3,344	2'-10"x4'- 3"	"
".....	1,178	2'- 8"x4'- 0"	"
".....	1,934	2'- 4"x3'- 6"	"
".....	41	1'-10"x2'- 9"	"
Egg shaped.....	477	2'- 8"x4'- 0"	"
".....	1,365	2'- 6"x3'- 9"	"
".....	951	2'- 4"x3'- 6"	"
".....	4,717	2'- 2"x3'- 3"	"
".....	1,994	2'- 0"x3'- 0"	"
".....	349	1'- 8"x2'- 6"	"
Circular.....	1,083	5'-0"	"
".....	1,004	4'-9"	"
".....	478	4'-3"	"
".....	684	4'-0"	"
".....	2,365	3'-9"	"
".....	1,588	3'-0"	"
".....	1,940	2'-8"	"
".....	760	2'-6"	"
".....	1,484	2'-3"	"
".....	1,139	2'-2"	"
".....	1,440	2'-0"	"
".....	40,657	24"	Clay pipe.
".....	31,360	20"	" "
".....	47,313	18"	" "
".....	78,983	15"	" "
".....	152,569	12"	" "
".....	150,006	10"	" "
".....	14,159	8"	" "
".....	287	6"	" "

RECAPITULATION BY SIZES.—*Concluded.*

DESCRIPTION	Length in Feet	Sizes	Material
Circular.....	20,706	18"	Cement pipe.
"	31,637	15"	" "
"	55,435	12"	" "
"	4,278	10"	" "
"	651	8"	" "
"	120	24"	Cast-iron pipe.
"	28	18"	" "
"	726	24"	Wood pipe.
"	290	18"	" "
"	433	3'- 0"	Segment block.
"	602	2'- 6"	" "
Miscellaneous shapes....	919		Brick and cem. mortar.
Total	802,173		

GENERAL CLASSIFICATION, 1918.

	Feet	Miles
Brick	137,218	25.988
Brick-concrete	661	.125
Concrete	34,054	6.449
Clay pipe	515,334	97.601
Cement pipe	112,707	21.346
Cast-iron pipe	148	.028
Wood pipe	1,016	.193
Segment block	1,035	.196
Total	802,173	151.926

COLLECTION.

MAINS (EVERYTHING BUT HOUSE AND CATCH BASIN CONNECTIONS).

	For sewage only.	For sewage and surface water.	For sur- face water only.
1. Lineal feet brick, ...		137,218	
2. " " concrete, ...		34,246	469
3. " " segment block, ...			1,035
4. " " pipe, ...	25,301	593,167	10,737
5. " " pipe extended during year, ...	749	3,148	4,690
6. Number of inverted siphons, ...		1	
8. Method of flushing: By connections with the water system.			
9. Method of cleaning: By scrapers and flush- ing.			
11. Number of direct connections with water mains for flushing, ...	15	632	
12. Number of flushings of entire system during year, ...		26	
13. Cost of flushing, per mile, ...		\$31.22	
14. Cost of cleaning, per mile, ...		\$36.78	
17. Number of storm overflows, ...		16	
18. Method of ventilation: By manholes and well holes and through house stacks.			

HOUSE CONNECTIONS.

1. By whom made:	By Sewer Department as far as street line.
2. Sizes, ...	6" and 8"
3. Number made during year, ...	87
4. Lineal feet laid during year, ...	About 2,400

GENERAL.

Total cost of collecting mains to date, ... \$1,878,048.85
 Proportion of cost of system paid for by abutters in fees, ... 40%+

Methods of assessing abutters and rate of assessment:—

Entrance fee of fifty (50) dollars for dwelling houses.

For buildings used for business purposes two (2) cents per square foot of area covered by the building for the two lower stories, and an additional charge of one half ($\frac{1}{2}$) cent per square foot of area covered by the building for each additional story.

SUMMARY OF SEWERAGE STATISTICS.

(In form recommended by Sanitary Section of Boston Society
Civil Engineers.)

For the Year Ending December 1, 1918.

SPRINGFIELD, MASSACHUSETTS.**GENERAL.**

Population by Assessors' Estimate, ...	130,000
Total area of city or town, ...	33.1 square miles
Area served by sewerage system, ...	10.3 square miles
Collection system, { For sewage only, ...	4.792 miles
{ For sewage and surface water, ...	144.843 miles
{ For surface water only, ...	2.291 miles
Method of disposal,—Gravity flow to Connecticut River.	

REPORT OF ASHES, RUBBISH AND GARBAGE DIVISION

FOR FISCAL YEAR ENDING NOVEMBER 30, 1918.

Mr. R. P. Marsh, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—I herewith submit a report of the work performed by the Waste Disposal Division, Department of Streets and Engineering, for the year ending November 30, 1918.

EXPENSE.

	Total Cost.	Amount Collection.	Unit Cost.
Ashes collection,.....	\$99,295.00	34,153 loads	\$2.90
Maintaining dumps,.....	3,273.82		
Rubbish collection,.....	25,441.41	5,690 loads	4.47
Garbage collection,.....	45,382.25	91.38 tons	4.58
Cost of maintaining Logan Street Incinerator, March 11, 1918, to November 30, 1918,.....			\$8,474.42
Receipts from sale of salvaged waste,.....	\$4,585.99		
Inventory of reclaimed waste November 30, 1918,..	284.98		
Total value of material reclaimed,.....			<u>4,870.97</u>
Net cost of operating incinerator,.....			\$3,603.45

ASHES COLLECTION.

The cost of this work is higher than in 1917 for several reasons: first, the quantities handled are greater; second, the labor rate is higher; and third, there is a scarcity of dumps within short hauling distance from the main thoroughfares of the city. While there are still locations in the outlying districts where ashes are disposed of to advantage for use in filling in

lowlands, the situation with regard to finding new locations is becoming more and more acute each year. Previous reports of the division have shown that the location of these dumps is steadily increasing the length of haul and adding to the cost of collections.

Owing to the shortage of labor, together with the nature of the work, there has been an unusual amount of supervision needed to maintain the usual efficiency in this division. Detailed studies are being made of the schedules or order in which the collections are made and while it is practically impossible to perfect such schedules finally, owing to the constantly changing conditions, they are nevertheless becoming much more satisfactory in their arrangements, and these schedules, it should be said, under normal conditions are so arranged that the householders may know exactly on what day to look for the collectors on their street. Since the beginning of 1918 the department has made a continuous effort to persuade householders to provide metal ash containers, size not exceeding eighteen inches in diameter and twenty-six inches in height. We find, when these containers are provided, complaints are seldom received.

GARBAGE.

Following your suggestion, special effort has been made to obtain and classify as much data as possible as to the cost and most effective method of conducting the work of this division. Not only has the disposal problem been made the subject of special investigation, but the equipment employed by other cities has been studied as carefully as possible and the results analyzed in an effort to ascertain the method of operation producing the best results. Studies are also being made continually of the routes or order in which the work is being daily performed and revisions of these routes have been made in order that the householder will know exactly on what day collections are to be made.

As has been frequently pointed out, this city labors under a very distinct disadvantage in connection with this work through lack of control of the operations of private collectors of garbage, who of course take the most desirable part of the material and thus reduce the amount that otherwise would be collected by our teams. If these private collectors were regulated, the cost per ton for this work would be materially lessened and the collection could be better controlled.

RUBBISH.

There has been a great deal of incorrect information quoted throughout the country in connection with this subject which has been very misleading

to the public and the officials in charge of the work and has led many people to believe that there is more revenue to be derived from reclaimed material from city rubbish than the data which has been collected in a few localities would appear to bear out. It is not expected that the return obtained from the reclamation of this waste will ever be a source of revenue to the city other than that it will pay in a large measure for a sanitary disposal of the city's rubbish by incineration. The solution of this problem would seem to be that a long term contract be entered into for the disposal of rubbish.

PUBLIC CO-OPERATION.

The work of collecting and disposing of the city waste can never be performed to the best advantage without enlisting the active co-operation of the general public and this division has been making every effort to obtain the interest of the householder in this service. Although the public is not as well informed of the details of the work and has not the active interest that is ultimately desired, a distinct advance has been made along these lines. The division is endeavoring in every way possible to reach the householder in this campaign of education, for it is impossible for any municipality to maintain proper sanitary conditions unless the people of the city do their share. No matter how well organized or how well the work is performed by the city, it can never be perfected unless the public appreciates its importance as affecting the health of the community and the appearance of the city.

In conclusion it gives me great pleasure to call attention to the co-operation of the foreman and men by whose efforts the success attained by the division is largely measured. Finally, I desire to thank you for the support and many courtesies extended to me during a time when labor conditions have been very uncertain.

Respectfully submitted,

E. G. BARNES,

Deputy Superintendent Waste Disposal.

REPORT OF STREET LIGHTING DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1918.

Mr. R. P. Marsh, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—During the year 1918, there were installed thirty-seven new arc lamps. This is the smallest percentage increase in twenty years. When we consider that eighteen of these were made necessary by the widening of Dwight street, and six to keep ahead of the new pavement on Worthington street, it can be seen how greatly the work has been curtailed. At the same time the city has continued to grow and the travel on our streets has constantly increased. As a result it has been impossible to meet all the needs which have arisen.

We have been fully aware of the fact that this must result in an increased rate of growth for the next year or two. A great deal of study has been given to the problem of how this situation should be met.

BUSINESS DISTRICT.

Our business district will compare favorably with that of any American city. There are a few points where improvement should be made, but there will not need to be any great increase except as made necessary by such changes as the new bridge, new railroad station, etc. Attention should be given to the alleys, which are not all properly lighted.

THOROUGHFARES.

The lighting of a number of our thoroughfares has been rearranged within the last few years and is very satisfactory. There are, however, several other thoroughfares in which the traffic has increased so greatly as

to make their lighting very inadequate. These streets should be taken up this coming year and at least some relief given. Among these are the following streets: North Main street, Liberty street, Maple street, Central street, Belmont avenue, Pecousic avenue, and others.

I wish again to emphasize the desirability of replacing the mast arms on thoroughfares by goose necks as rapidly as possible. The glare caused by suspending an arc lamp over the traveled part of the street, as low as our mast arms are placed, constitutes a danger to traffic.

RESIDENCE STREETS.

There is considerable room for improvement in the lighting of several of our residence streets. In the new streets, the lighting has not in all cases kept pace with the growth of the street. In several of the older streets, the lighting might well be improved. Conditions have changed in many streets so that a lighting which was satisfactory a few years ago is no longer adequate. Extensive changes should be made in the lighting of our residence streets in the near future.

TYPE OF EQUIPMENT.

Our present arc lamp has been in use for five years and has given good service. In its field it is the best lighting unit available. I feel, however, that recent developments in incandescent lamps and equipment have rendered the arc lamps out of date for residence streets. Tungsten lamps have increased in efficiency and with the new equipment it is possible to utilize the light to a much greater advantage than formerly. The objections to arc lamps on residence streets are excessive brightness near the lamp and darkness between the lamps. By use of medium size units both these objections can be overcome without material increase in cost. Your deputy is working on the design of a special unit for use in our streets. This unit involves only the use of principles and equipment which have been giving satisfactory service in other cities but it is altered as to form so as to be unique and artistic. I strongly recommend that this development be completed and arrangements made for the adoption of such system of lighting on our residence streets.

CONCLUSION.

Few people realize the important place which adequate street lighting occupies in modern city life. Without it our streets would be utterly una-

ble to care for the great crowds and large amount of traffic which they are called upon to bear. The amount and nature of the use of a street greatly effect the amount of light needed. A lighting which was fully adequate a few years ago may not be sufficient for safety to travel under the present condition.

Springfield is a city of unusual area in proportion to its population and is consequently an expensive city to light, but I feel that few things give a greater return in proportion to the money expended than does good lighting.

STREET LIGHTING DATA.

Number of arcs connected overhead, November 30, 1918,.....	485
Number of arcs connected underground, November 30, 1918,....	1334
Number of inverted arcs, November 30, 1918,.....	65
Number of incandescents connected overhead, November 30, 1918,	379
Number of incandescents connected underground, November 30, 1918,.....	91
Price: Pendent arcs,.....	\$70.00
Inverted arcs,.....	75.00
Overhead incandescents,.....	15.00
Underground incandescents,.....	20.00

Type of arc: 5 ampere, 400-watt General Electric Magnetite Arc with high efficiency electrodes in medium Alba globes.

Inverted arcs: 5 ampere, 400-watt General Electric Magnetite Arc in medium Alabaster polycase globe.

Type of incandescents: 80-watt series Tungstens with radial wave reflectors.

Hours per year: 4,000 for all lamps.

Current generated: Partly by Brush Arc machines; partly by rectifiers.

Inspection: Every light inspected twice each night by regular inspectors, besides police reports.

EXPENDITURES YEAR BY YEAR.

		Per Cent Increase Over Preceding Year.
1909	\$90,291.12	4.69
1910	96,908.49	7.32
1911	104,246.23	7.57
1912	111,485.16	6.94
1913	123,358.47	2.08*
1914	117,555.11†	3.25
1915	122,602.70	4.29
1916	132,645.06	8.19
1917	137,896.60	3.97
1918	140,897.77	2.18

* 13 months' bills were paid in 1913 and this was taken into consideration in figuring percentage of increase.

† In 1914 the salary of the Deputy Superintendent was charged to administration but in this table it is added to the street lighting account for purposes of comparison.

Respectfully submitted,

WM. E. HODGE,

Deputy Superintendent Street Lighting.

DEPARTMENT OF
CHARITIES.

BOARD OF
OVERSEERS OF THE POOR
FOR 1918.

HON. FRANK E. STACY, *Chairman.*

ARTHUR A. CALL,	<i>Resigned September 30, 1918.</i>
WILLIAM R. THACKER,	<i>Term expires April 1, 1919.</i>
HENRY P. NORRIS,	<i>Term expires April 1, 1920.</i>
WILLIAM J. LEONARD, M.D.,	<i>Term expires April 1, 1921.</i>
J. STUART KIRKHAM; elected to fill un- expired term of A. A. Call,	<i>Term expires April 1, 1921.</i>

REPORT

OF THE

DEPARTMENT OF CHARITIES

FOR THE

YEAR ENDING NOVEMBER 30, 1918.

To the City Council:—

The appropriation for the department was as follows:—

Land, Buildings and Capital Outlay,.....	\$1,100.00
General Administration,.....	10,501.44
Almshouse,.....	46,682.00
Wayfarers' Lodge,.....	6,193.00
Outside Relief,.....	47,170.56
Collections transferred to our credit,.....	3,976.12
Total resources,.....	\$115,623.12
 Reserved encumbrance,.....	 \$1,100.00
Unexpended balance,.....	376.08
	1,476.08
 Total expenditures,.....	 \$114,147.04
Collections paid into General Funds,.....	32,354.13
	\$81,792.91

We have in previous reports mentioned the fact that the expenditures of this department were steadily increasing.

The past year has been no exception. Owing to the war, unusual conditions have prevailed. The price of provisions, fuel, and all kinds of supplies has steadily increased.

There has been plenty of employment for all that have been able to work. Wages have been good, and there has been little aid required for this class of applicants.

There has been a marked increase in the cost of support in the families where there has been no wage earner, and it is to these families that a large portion of the aid has been given.

It was said by a member of the State Board of Charity, at a meeting held in this city several years ago, that "The day of the \$2.00 order has passed." This statement has proven true in our experience in disbursing aid.

It is owing to these conditions in the main that our expenses have more than doubled in the last five years.

The number aided has not increased proportionately. The following table gives the number aided, expenditures, receipts and net costs for a series of years:—

	No. Aided.	Expenditures.	Receipts.	Net Cost.
1913	2,076	\$55,438.35	\$19,729.93	\$35,708.42
1914 (13 mos.)	3,150	91,972.06	12,482.92	79,489.14
1915	3,636	86,219.40	25,771.58	60,447.82
1916	2,780	92,895.45	27,348.84	65,546.61
1917	2,455	100,150.34	43,905.28	56,245.06
1918	2,544	114,147.04	32,354.13	81,792.91

ADMINISTRATION.

The increased work necessary in the administration of this department due to detailed reports required by State Authorities, our system of accounting and the oversight of aid granted to mothers with dependent children, has required an additional office force. This department employs a Welfare Nurse whose duty it is to attend to the sick in their homes, and improve their living conditions. As far as we are aware, there is no other city in this State which employs a person in this capacity. We are satisfied that results obtained justified the expense. Her assistance has been of particular value during the influenza epidemic.

The salaries of administration in 1913 were \$5,195.50; in 1918, \$8,694.50.

OUTDOOR RELIEF.

The expenditure for 1917 and 1918 was as follows:—

	1917.	1918.
Disbursed direct to poor by Agent, ...	\$35,715.67	\$39,214.24
Paid to hospitals in Springfield, ...	4,882.44	4,708.92
Paid to cities and towns for Springfield poor, ...	2,572.51	2,087.05
Paid to state institutions, ...	518.12	1,160.35
	\$43,688.74	\$47,170.56

The explanation for this increase has been previously given in this report. Aid given to mothers with dependent children (chapter 763, Acts 1913) was \$16,414.39 in 1917. This year it was \$16,797.48, showing a slight increase.

The indications for the coming year are that there will be a great increase in expenditure for this class of applicants. The influenza epidemic has left many widows with dependent children.

In previous years a large proportion of aid was given in the form of grocery orders. At the present time it is the custom in many cities to give cash, which is advocated by Public and Private Charitable Officials. While we are not entirely in favor of this practice we have allowed a portion of the aid in cash, discriminating in favor of those who are considered competent to use it prudently.

In 1913—Disbursement for cash was.....	\$658.43
In 1913—Disbursement for provisions was.....	6,539.98
In 1918—Disbursement for cash was.....	\$15,685.44
In 1918—Disbursement for provisions was.....	16 894.90

HOSPITALS.

The rates in the hospitals have recently been increased.

Expenses in the various hospitals in Springfield were as follows:—

	1917.	1918.
Mercy Hospital, ...	\$2,566.41	\$2,496.59
Springfield Hospital, ...	1,994.00	2,054.15
Wesson Memorial Hospital, ...	232.17	68.18
Home Hospital, ...	89.86	57.85
Wesson Hospital (Maternity), ...		32.15
	\$4,882.44	\$4,708.92

ALMSHOUSE.

There have been no extraordinary repairs or special improvements made. The total number of inmates for the year was 498. The average weekly expense per inmate was \$7.43.

The daily average in 1917 was 124; in 1918 it was 120.

The total expense at Alms house was \$50,616.82. The increase over the preceding year was \$6,278.91. A large portion of this increase was due to the high price of coal, and the unusual amount consumed due to an excessively cold winter.

The hospital at the Almshouse enables us to care for many cases at a saving to the city. It has been overcrowded a large portion of the time, particularly during the influenza epidemic. Additional hospital room has been provided in the unoccupied portion of the main building in which we have cared for patients who could not secure admission to other hospitals. Some of these patients pay for their own care.

In the near future it will be necessary to utilize the upper portion of the hospital buildings for hospital purposes. It is now used to lodge the employees of the Almshouse, and of the Isolation Hospital.

The Isolation Hospital is heated by the central plant. Their system of heating has been different from that of the Almshouse, making it more expensive. Changes are now in progress which will harmonize the system, and thereby make a saving. A special appropriation of \$1,100 has been made for this purpose. The City Physician has made 344 visits during the year.

The products of the farm as returned by the Master were as follows:—

50 bushels peas at \$1.50,.....	\$75.00
40 bushels string beans at \$1.00,.....	40.00
30 bushels shell beans at \$1.50,.....	45.00
30 bushels lima beans at \$1.50,.....	45.00
25 bushels cucumbers at \$1.00,.....	25.00
40 bushels tomatoes at \$1.00,.....	40.00
90 bushels beets at 50 cents,.....	45.00
20 bushels parsnips at \$1.50,.....	30.00
100 bushels onions at \$1.00,.....	100.00
400 bushels potatoes at \$1.50,.....	600.00
500 bushels turnips at 40 cents,.....	200.00
180 bushels carrots at 50 cents,.....	90.00
1,466 pounds squash at 2 cents,.....	29.32
Pumpkins,.....	10.00
12 tons hay at \$30.00,.....	360.00
Corn in silo,.....	150.00
Sweet corn,.....	50.00
600 bushels corn,.....	600.00
36,699 quarts milk at 10 cents,.....	3,669.90
3,000 cabbages at 3 cents,.....	90.00
5,742 pounds pork sold,.....	1,320.66
800 bushels mangels at 25 cents,.....	200.00
100 bushels ruta-bagas at 75 cents,.....	75.00
Bones, tallow, etc., sold,.....	61.44
Beef sold,.....	231.00
	\$8,182.32

WAYFARERS' LODGE.

The new lodge was completed and first occupied February 1, 1918. Its total cost was \$25,848.57, provided for by a special appropriation. It is well suited for the purpose for which it was erected. Ample shed room has been provided so that the wood can be stored under cover, and delivered to the customer in good condition.

The number of tramps lodged from February 1, 1918, to November 30, 1918, was 171. Without doubt there will be an increase in the number of lodgers the coming year.

Mr. David I. Steele has been engaged as keeper.

The net expense for the year was \$2,438.36.

Respectfully submitted,

HENRY P. NORRIS,
WM. R. THACKER,
J. STUART KIRKHAM,

Overseers of the Poor.

STATISTICS

RECEIPTS AND TRANSFERS

	Receipts.	Transfers.
From appropriation,.....		\$111,647.00
Various cities and towns:—		
Almshouse care,.....	\$719.42	
Outside relief,... ..	1,917.93	
	<u>2,637.35</u>	
The Commonwealth, for temporary aid, care of sick and transportation:—		
Almshouse care,.....	\$2,108.62	
Outside relief,.....	19,340.57	
	<u>21,449.19</u>	
Isolation Hospital, for lighting, heating, ambulance service and ice,.....		\$3,760.27
Health Department, for care of sick at hospitals,,.....		12.00
Soldiers' Relief, for care of sick at hospitals,.....		203.85
		<u>3,976.12</u>
Individuals for care at hospitals and aid reimbursed:—		
Almshouse care,.....	\$3,798.27	
Outside relief,.....	395.16	
	<u>4,193.43</u>	
Sale of farm products,.....	1,678.51	
Sale of wood,.....	2,395.65	
	<u>\$32,354.13</u>	<u>\$115,623.12</u>

EXPENDITURES.

For the support of persons at the Almshouse,.....	\$50,616.82
Outdoor relief, not including hospital expenses,.....	41,301.29
The support of patients in the local hospitals,.....	4,708.92
The State Infirmary,.....	50.29
The State Farm,.....	155.00
The Massachusetts Hospital School,.....	828.56
The Massachusetts General Hospital,.....	126.50

Salaries, ...	\$8,694.50
Automobile, ...	1,098.57
Miscellaneous expenses, ...	580.44
Wayfarers' Lodge, ...	5,986.15
	\$114,147.04
Reserved encumbrance, ...	1,100.00
Balance unexpended, ...	376.08
	*\$115,623.12

*\$2,000.00 greater in Treasurer's report represents amount advanced for the office expenses and returned to the Treasurer at the end of the year.

ALMSHOUSE.

Number of persons in Almshouse December 1, 1917, ...	116
Number admitted during the year, ...	382
Total number of inmates, ...	498
Number discharged, ...	367
Number remaining November 30, 1918, ...	131
Average number of inmates, ...	120

OUTDOOR RELIEF.

The total number aided was:—

Having a settlement in the city, ...	936
Having a settlement elsewhere, ...	190
Having no settlement, ...	920
	2,046

The number of families aided was:—

Having a settlement in the city, ...	270
Having a settlement elsewhere, ...	60
Having no settlement, ...	306
	636

The number of families aided for the first time was:—

Having a settlement in the city, ...	107
Having a settlement elsewhere, ...	40
Having no settlement, ...	200
	347

The number of persons aided for the first time was:—

Having a settlement in the city,.....	296
Having a settlement elsewhere,.....	97
Having no settlement,.....	429
	822

EXPENSES OF OUTDOOR RELIEF.

(Including hospital aid.)

Persons having a settlement in the city,.....	\$24,974.99
Persons having a settlement elsewhere,.....	2,569.89
Persons having no settlement,.....	19,625.68
	\$47,170.56

The total number of persons aided during the year was 2,544.

Seventy-five persons have been sent to the State Infirmary at Tewksbury.

One hundred seventy-one tramps were lodged during the year.

Sixty-eight notices were received from various cities and towns and the State, of aid rendered to persons whose settlement was claimed in this city. Of these notices there were found 109 persons having a settlement and 54 having no settlement in this city.

The City Physician made 679 visits to the poor in their homes.

INVENTORY.

Alms-house:—

Furniture, fixtures, and farm tools,.....	\$9,411.60
Provisions and supplies,.....	13,330.41
Horse, cows, and other live stock,.....	2,677.00

Office:—

Furniture,.....	707.50
-----------------	--------

Wayfarers' Lodge:—

Wood,.....	434.50
Furniture and supplies,.....	392.20
Fixtures,.....	354.25
Horse and vehicles,.....	275.00

\$27,582.46

STATEMENT OF EXPENDITURES IN 1917-1918.

OUTDOOR RELIEF.

	Cash.	Transportation.	Fuel.	Provisions.	Clothing.	Medicine and Medical Attendance, and Nursing.	Cities and Towns.	Burla.	State Infirmary, Tewksbury.	State Farm, Bridgewater.	Mass. Hospital School, Canton.	Massachusetts General Hospital.	Springfield Hospital.	Mercy Hospital.	Wescon Hospital.	Home Hospital.	Totals.
December..	\$1,120 08	\$114 18	\$574 35	\$888 40	\$108 68	\$80 95	\$27 98	\$20 00	.....	.....	\$178 29	\$128 50	\$364 25	.....	\$32 15	\$30 00	\$2,899 80
January...	1,128 88	83 83	519 74	1,089 23	135 69	68 70	\$37 98	9 00	.....	.....	.....	.....	.....	.....	.....	.....	4,283 49
February...	1,186 86	72 80	576 89	1,480 64	122 15	61 45	689 87	64 00	.....	\$92 00	168 48	.....	.....	\$753 13	25 00	.....	5,028 69
March.....	1,174 47	97 28	586 87	1,480 07	152 74	262 88	180 17	85 00	.....	.....	.....	.....	.....	.....	.....	.....	4,198 11
April.....	1,228 54	90 28	586 87	1,481 75	118 12	262 88	180 17	85 00	.....	.....	.....	.....	.....	.....	.....	.....	4,831 52
May.....	1,585 40	72 74	145 85	1,482 90	118 12	262 88	180 17	85 00	.....	.....	.....	.....	.....	.....	.....	.....	4,631 98
June.....	1,280 61	50 90	4 50	1,569 40	211 80	170 60	15 71	100 00	\$13 43	.....	.....	.....	.....	.....	.....	.....	3,668 00
July.....	1,285 43	7 61	.....	1,841 94	54 72	183 80	161 62	15 00	.....	.....	.....	.....	.....	.....	.....	.....	3,098 97
August.....	1,568 08	59 50	.....	1,267 15	27 41	124 90	595 61	27 00	\$6 86	.....	.....	.....	.....	.....	.....	.....	3,450 71
September.	1,258 41	82 91	6 00	1,505 42	185 12	90 80	4 00	70 00	.....	.....	.....	.....	.....	.....	.....	.....	3,687 55
October.....	1,684 38	183 40	28 00	1,205 79	138 20	81 65	819 22	20 00	.....	.....	.....	.....	.....	.....	.....	.....	3,298 64
November.	1,271 37	36 88	368 85	1,624 21	198 51	52 80	12 86	25 00	.....	.....	.....	.....	.....	.....	.....	.....	4,443 85
	\$15,685 44	\$765 84	\$2,671 94	\$16,894 90	\$1,424 94	\$1,251 18	\$2,087 05	\$520 00	\$50 29	\$155 00	\$828 56	\$128 50	\$2,054 15	\$2,496 59	\$100 88	\$57 85	\$47,170 56

STATEMENT OF EXPENDITURES IN 1917-1918.—
CONTINUED.

ALMSHOUSE.				
	Mainte- nance.	Salaries.	Furniture and Repairs.	Totals.
December.....	\$1,582 49	\$1,167 55	\$22 10	\$2,772 14
January.....	2,649 23	1,149 00	22 15	3,820 38
February.....	1,700 00	1,129 77	55 29	2,885 06
March.....	2,725 46	1,150 59	233 80	4,109 85
April.....	2,546 47	1,149 59	320 06	4,016 12
May.....	2,228 22	1,318 74	95 45	3,642 41
June.....	2,229 81	1,266 12	45 83	3,541 76
July.....	3,828 52	1,312 19	40 84	5,181 55
August.....	2,180 52	1,312 53	357 35	3,850 40
September.....	1,650 94	1,308 49	106 53	3,065 96
October.....	7,559 34	1,381 45	163 75	9,104 54
November.....	3,022 98	1,404 73	198 94	4,626 65
	\$33,903 98	\$15,050 75	\$1,662 09	\$50,616 82

GENERAL ADMINISTRATION.				
	Salaries.	Miscella- neous.	Totals.	Wayfarers' Lodge.
December.....	\$719 34	\$25 84	\$745 18	\$177 87
January.....	728 17	22 44	748 61	899 45
February.....	705 66	52 15	757 81	675 61
March.....	699 27	40 76	740 03	316 88
April.....	685 25	35 45	720 70	603 52
May.....	681 00	118 08	799 08	274 21
June.....	657 22	40 78	697 95	479 23
July.....	676 67	32 67	709 34	238 73
August.....	698 92	25 95	724 87	888 81
September.....	731 66	60 25	791 91	230 55
October.....	856 66	56 21	912 87	451 33
November.....	856 68	1,168 53	2,025 21	749 96
	\$8,694 50	\$1,679 01	\$10,373 51	\$5,986 15

TOTALS.

	Outdoor Relief.	Alms-house.	General Admin- istration.	Wayfarers' Lodge.	Grand Totals.
December.....	\$2,899 60	\$2,772 14	\$745 18	\$177 87	\$6,594 79
January.....	4,285 49	3,820 38	748 61	899 45	9,753 93
February.....	5,028 69	2,885 06	757 81	675 61	9,347 17
March.....	4,199 11	4,109 85	740 03	316 88	9,365 87
April.....	3,881 52	4,016 12	720 70	603 52	9,221 86
May.....	4,631 93	3,642 41	799 03	274 21	9,347 58
June.....	3,665 00	3,541 76	697 95	479 23	8,383 94
July.....	3,498 97	5,181 55	709 34	238 73	9,628 59
August.....	3,450 71	3,850 40	724 87	888 81	8,914 79
September.....	3,637 55	3,065 96	791 91	230 55	7,775 97
October.....	3,298 64	9,104 54	912 87	451 33	13,767 38
November.....	4,643 35	4,626 65	2,025 21	749 96	12,045 17
	\$47,170 56	\$50,616 82	\$10,373 51	\$5,986 15	\$114,147 04

REPORT

OF THE

MILITARY RELIEF COMMISSION

SPRINGFIELD, MASS., January 2, 1919.

To the Honorable City Council of the City of Springfield, Mass.

GENTLEMEN:—We respectfully submit the following statement of receipts and disbursements of the Military Relief Commission for the year 1918:—

Cash on hand Dec. 1, 1917,.....	\$145.80		
<i>Received from E. T. Tift, Treas.</i>		<i>Paid to Jas. L. Bowen, State Agent.</i>	
Dec. 29, 1917,.....	2,000.00	Dec. 28, 1917,.....	\$1,500.00
Jan. 30, 1918,.....	2,500.00	Jan. 30, 1918,.....	2,500.00
Feb. 26, 1918,.....	2,500.00	Feb. 26, 1918,.....	2,500.00
Mar. 30, 1918,.....	2,500.00	Mar. 30, 1918,.....	2,500.00
May 9, 1918,.....	3,000.00	May 9, 1918,.....	3,000.00
June 24, 1918,.....	2,000.00	June 24, 1918,.....	2,000.00
July 31, 1918,.....	5,000.00	July 31, 1918,.....	5,000.00
Aug. 22, 1918,.....	1,000.00	Sept. 11, 1918,.....	5,000.00
Sept. 12, 1918,.....	6,000.00	Nov. 4, 1918,.....	3,000.00
Nov. 4, 1918,.....	3,500.00		
			<u>\$27,000.00</u>
		Paid on sundry dates to soldiers' dependents,	2,049.91
		Dec. 1, 1918, cash on hand,.....	1,095.89
			<u>\$30,145.80</u>
	<u>\$30,145.80</u>		<u>\$30,145.80</u>

The function of the Commission has been to render urgent temporary aid to the dependents of soldiers, and as soon as possible to turn over all applicants to James L. Bowen, State Agent for Soldiers' Aid. Of the total amount disbursed, viz., \$27,000 was turned over to Mr. Bowen, and \$2,049.91 was distributed in varying amounts to dependents. The latter amount involved 189 payments to 26 applicants, vouchers for each one of which are on file.

The Commission desires to thank Miss Annie I. Gerry of the Home Service Section of the Red Cross for her very valuable voluntary service rendered in determining the just amounts to be paid to applicants.

Very truly yours,

EMBURY P. CLARK, *Chairman,*
J. K. DEXTER, *Treasurer,*
TIMOTHY J. COLLINS,
Military Relief Commission.

REPORT

OF THE

SOLDIERS' RELIEF COMMISSIONER

SPRINGFIELD, MASS., December 23, 1918.

To His Honor, the Mayor, and the City Council of the City of Springfield.

GENTLEMEN:—The department theretofore known as "Soldiers and Sailors' Benefits" was, on the 16th day of July, 1918, transferred to the newly created office of "Soldiers' Relief Commissioner." This change of title, however, involved no change in the scope and method of management of the department, and the report for the year just closed will pursue the line heretofore followed in presenting the comparative figures for the several lines of work carried on in the interest of the needy veterans of our city and their dependents.

The annual report is naturally divided into two distinct sections, the first including the beneficiaries of the Civil and Spanish wars, and its financial showing may be presented without further introduction, the several lines of tabulation following those of former years, comparison being given with the year just closed and the three years immediately preceding:—

	1918	1917	1916	1915
State Aid, Civil War,.....	\$11,274.00	\$12,408.00	\$13,575.00	\$13,760.00
State Aid, Spanish War,..	144.00	264.00	198.00	176.00
Military Aid,.....		60.00	220.00	170.00
Soldiers' Relief disbursed,.	6,478.04	6,215.42	6,200.04	6,132.20
Salary and incidentals,..	1,217.66	815.29	819.52	827.67

Recipients of State and Military Aid enrolled at close of the year:—

Veteran soldiers,.....	51	55	70	75
Widows,.....	119	116	129	126
Soldiers' wife,.....	1	1	1	1
Widowed mothers,.....	0	1	2	2

Recipients of Soldiers' Relief during the year:—

Families,.....	15	22	20	28
Single persons,.....	41	65	73	75

These figures tell their own stories unmistakably. Year by year our veterans of the earlier wars, Civil and Spanish, are dropping from the ranks—a result to be anticipated with the increasing age of the men. Yet the depletion of their ranks is not remarkable. The remarkable fact is rather the wonderful tenacity of life shown by the men whose vitality was so strongly developed by the experiences of camp and the trials of the march and the battlefield.

THE GERMAN WAR.

The report of last year for this department presented very briefly the trials and perplexities connected with the earnest efforts being put forth to care for the families and relatives of the soldiers so suddenly called from our midst. As these lines are written the light is breaking, to some extent. Many soldiers are being discharged and returned to their families; yet the government and the various organizations devoted to the welfare of the soldiers and their dependents find ample scope for all their means and energies in providing for those who for long months have struggled with the adverse conditions from which many a mother and needy children have suffered.

In connection with its many other lines of effort, our city has devoted all possible energies through the State Aid department toward assistance for the cases of need which have come to this office. The financial showing is presented by monthly figures, in comparison with the opening months of our effort in 1917. The fidelity with which the demands upon us have been met are well shown in the figures:—

	1918	1917
December, 1917,.....	\$1,452.00	
January, 1918,.....	1,506.15	
February,.....	1,672.00	
March,.....	2,260.33	
April,.....	2,022.00	\$900.00
May,.....	2,212.00	930.00
June,.....	2,082.00	601.00
July,.....	2,572.00	667.49
August,.....	2,687.00	647.50
September,.....	2,434.50	670.00
October,.....	4,022.00	1,204.16
November,.....	3,432.00	1,458.66
	\$28,353.98	\$7,078.81

What the future holds in store in the way of experience cannot be predicated. Changed conditions must be expected, and in what direction these changes may lead, who shall undertake to state, in view of the great sea of uncertainty into which our pathway seems to lead? Of one thing we are sure: If the American soldier is called to service, the great nation with all its vital force will stand beside his dependents with tender heart, abundant resources, and the same untiring devotion which has marked all the stages of our national life. The city of Springfield will do its full part whenever and wherever duty may call.

In accepting the official title and the assignment to duty so kindly and thoughtfully bestowed in the creation of the office of "Soldiers' Relief Commissioner," I do so with a full realization of the kindness which animated the officers of the city government and all city officials interested in providing a pleasant and adequate official suite for the transaction of our business.

To all who have aided in making this transition agreeable and given words and active deeds of untiring kindness, my grateful thanks are sincerely tendered.

Respectfully submitted,

JAMES L. BOWEN,

Soldiers' Relief Commissioner.

REPORT

OF THE

SEALER OF WEIGHTS AND MEASURES

To the Honorable Mayor and City Council.

GENTLEMEN:—In accordance with section one of Chapter 452 of the Acts of 1914 I herewith submit the annual report of the Department of Weights and Measures for the fiscal year ending November 30, 1918.

Appropriations and transfers, ... \$5,518.32

EXPENDITURES.

Salaries: Sealer, Deputy Sealers, Inspector of Coal,	\$3,234.37
New Ford runabout, ...	612.31
Operating motor vehicles, ...	327.64
Transportation, trucking, etc., ...	243.03
Printing and office supplies, ...	95.55
Equipment and tools, ...	658.40
Lavatory in office, ...	87.00
Typewriter, ...	92.25
Miscellaneous, ...	136.47
	\$5,487.02
Sealing fees collected and paid to City Treasurer, . .	\$513.98

Detailed report of the work of the department as submitted to the Commissioner of Standards, State House, Boston, Mass., for the fiscal year 1918, follows:—

	Sealed.	Condemned.
Platform scales, over 5,000 pounds, ...	35	1
Platform scales, under 5,000 pounds, ...	253	32
Counter scales, ...	678	14
Beam scales, ...	42	2
Spring scales, ...	642	178
Computing scales, ...	314	35
Personal weighing, ...	38	
Prescription scales, ...	3	
Jewelers' scales, ...	1	
Avoirdupois weights, ...	2,307	20
Apothecary weights, ...	19	

	Sealed.	Condemned.
Troy weights,.....	22	
Dry measures,.....	32	
Liquid measures,.....	745	26
Oil and gasoline pumps,.....	377	24
Glass milk jars,.....	1,930	
Glass graduates,.....	1	
Yardsticks,.....	39	
Steel tapes,.....	7	
Measuring machines,.....	1	1
	7,486	333

TRIAL WEIGHINGS AND MEASUREMENTS.

	Tests.	Correct.	Under.	Over.
Coal in transit,.....	20	4	8	8
Wood,.....	14	1	13	
Ice,.....	18		18	
Flour,.....	251	100	151	
Butter,.....	78	33	28	17
Dry commodities,.....	1,411	436	950	25
Fruits and vegetables,.....	247	137	85	25
Bread,.....	339	116	91	132
Miscellaneous,.....	2		2	
Totals,.....	2,380	827	1,346	207

During the year thirty persons, firms, or corporations have been brought before the court for violation of the weights and measures laws. Out of these twenty-six were convicted and fined various amounts; total amount of fines imposed, \$680.

For various reasons the volume of work shown by this report is not as large as it should be for a city of such commercial importance and size.

When I was appointed sealer some four and one half months ago, only a very small portion of the field work had been done. I immediately set about to procure new and adequate equipment, but owing to the fact that Government emergency orders were being filled by firms who manufacture this kind of equipment, it was impossible to get deliveries in any reasonable length of time. However, when the balance of what I have ordered arrives, which will be very soon, we will have two complete sets of equipment for field work.

I have procured additional office equipment, so that with the necessary repairs on the old, and a comparatively small amount of new, the department will be equipped, to compare favorably with cities of like size in the Commonwealth.

We invite co-operation with the public and ask them to check up all purchases as far as possible, reporting any discrepancies in weight that may be found. All complaints of this character will be confidential if so desired by the complainant.

At present a considerable portion of the sealer's time is taken up with the investigation of such reports, and in many instances these interviews prove to be of an educational nature, inasmuch as the offender may or may not have been aware of any wrongdoing. In such cases the sealer must use his best judgment to determine what is the proper course to pursue. It is not our intention to persecute any one, but the willful offender will be punished to the full extent, to the end that the public may be protected.

With this object in view I wish to call your attention to the necessity of increasing the force in this department, of the need of which you are more or less familiar.

I, therefore, recommend that provisions be made for a clerk for this department so that the office may be open during the entire business hours of the building, and also that the sealer may be given an opportunity to attend to the many important matters outside the office demanding his attention, which are of such a nature they cannot be shown in a written report, but are most essential to obtain the desired results.

I also recommend that another deputy sealer be appointed so that the field work may be properly covered. With the ever increasing number of weighing and measuring devices, frequently demanding the attention of the deputy (as in the case of the gasoline pump), and owing to their nature and location, they require frequent tests to be made, in order that the customer may be assured of full value received.

With the many calls for special service in various lines, such as above mentioned, taking much time and attention of the deputy sealers, the result is that a considerable portion of the field work, required by Statute to be done, has to be neglected.

I take this opportunity to express my appreciation and thanks to the Honorable Mayor and City Council, the Commissioner of Standards, Hon. Thure Hanson, and the State Inspector of Standards, Mr. P. J. Tetrault, for the confidence, advice, and kindness they have so generously extended to me during my short period of service in this department.

Respectfully submitted,

WILLIAM FOSTER,
Sealer of Weights and Measures.

REPORT

OF THE

MUNICIPAL MARKET COMMITTEE

SPRINGFIELD, MASS., January 20, 1919.

To the City Council of the City of Springfield:—

The Committee on Municipal Market begs to submit the following report for the year 1917 and 1918:—

Appropriation,.....	\$6,000.00
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Expenditures:—

Personal services.

Pay roll,.....	\$1,436.00
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Services other than personal.

Transportation of things,.....	\$6.00	
Telephone and postage,.....	40.73	
Advertising,.....	145.92	
Signs and posts,.....	42.10	
Shutting off water,.....	1.00	
Cleaning windows,.....	7.25	
Making slides,.....	4.25	
Writing letters,.....	8.75	
Making blackboard,.....	5.00	
Temporary office (W. A. Newton & Co.),.....	147.10	
Moving tables,.....	7.80	
	415.90	

Fixed charges and contributions.

D. E. Burbank, agent (Rent, \$390;		
Lights, \$5),.....	\$395.00	
L. W. Besse, rent of land,.....	2,600.00	
	2,995.00	

Supplies.

Baskets, bags and tags,.....	838.18
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Amounts carried forward,.....	\$5,635.03	\$6,000.00
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Amounts brought forward,.....	\$5,685.08	\$6,000.00
Materials.		
Wire and tacks,.....	.96	
Equipment.		
Barn brooms,.....	\$2.00	
Scales and oilcloth,.....	8.20	
		10.20
Allowance for Indian Orchard.		
Market,.....	100.00	
		5,796.24
Unexpended balance,.....		\$203.76
Receipts for period,.....		\$2,303.44

RECEIPTS ITEMIZED.

Fees from farmers,.....	\$1,194.30
Sale of bags and baskets,.....	958.81
Automobile parking,.....	150.33
Total receipts,.....	\$2,303.44

The summer market opened on May 4, 1918, and closed on November 30, 1918. During this period of 79 market days 2,390 loads of produce were brought in and disposed of. The total wholesale value of this produce, as reported by Mr. Porter, amounted to \$87,793.00; and it is estimated that the retail value of the same was about \$105,000.00.

The market was operated during the year at a net cost to the city of \$3,492.80. This amount includes \$900.00, which was paid to George W. Porter as Special Agent of the United States Department of Agriculture, Bureau of Markets, in the Market Reporting News Service. This item of \$900.00 will not be necessary in the future, as the Department of Agriculture has agreed to assume this expense. Attached is their letter of January 11, 1919, to this effect.

Another large item of expense is the rental which the Committee has been obliged to pay for the Vernon street site. We have decided that it is impossible to run a market such as we have been conducting for the past year, pay such a high rent, and have the market self-supporting. We believe that after financing it for two years and giving it such a splendid start, that it ought to be run at no expense whatever to the taxpayers.

We would recommend, therefore, that unless the Vernon street site can be secured for the coming year at a rental of about \$1,000.00, a new location be found and that whatever expense is necessary should be borne by the farmers using the market. This is practically the way in which the

winter market is now being operated on Worthington street, under the name of "The Farmers' Market," and run by the Hampden County Farmers' Exchange.

We believe that the Municipal Market idea is a good one and that it should be continued.

Yours very respectfully,

FRED A. ELDRED,
ARTHUR G. TAYLOR,
AMBROSE H. REYNOLDS,
Municipal Market Committee.

UNITED STATES DEPARTMENT OF AGRICULTURE

Bureau of Markets

WASHINGTON, D. C.

January 11, 1919.

Mr. Arthur G. Taylor, Secretary Municipal Market Committee, 274 Main Street, Room 301; Springfield, Mass.

DEAR MR. TAYLOR:—We have received your letter of December 23, 1918, in regard to the salary of Mr. George W. Porter, in charge of the City Market Reporting Service of this Bureau in Springfield, and have been delaying answer in the expectation from day to day that action with reference to Mr. Porter's appointment would be consummated in such a way that his entire salary would be paid by this Bureau. The appointment has now been approved, effective January 1 last, and local co-operating parties, therefore, will not be called upon for any contribution after that date.

We wish to thank you most cordially, and through you the city of Springfield, for the very substantial co-operation extended during the war emergency.

With kindest personal regards and best wishes, I am

Very truly yours,

G. V. BRANCH,
Specialist in City Marketing.

REPORT

OF THE

INSPECTOR OF ANIMALS

SPRINGFIELD, MASS., January 1, 1919.

To the Mayor and Members of the City Council.

GENTLEMEN:—I have the honor to submit herewith my report as Inspector of Animals for the year 1918.

I was unfortunately taken seriously ill just prior to the annual inspection which is conducted in February, and so that duty was performed by Dr. Myron Chapin in my stead. The result is as follows:—

Milk cows,.....	272
Neat cattle,.....	386
Swine,.....	1,060
Sheep,.....	5
Goats,.....	6
Total,.....	1,729

kept in 103 different places within the city limits.

Improvements were recommended in two stables.

The condition of the animals and their housing was as a rule satisfactory. I am pleased to say there were no cases of glanders during the year, which proves the good results of closing public drinking troughs.

Your Inspector examined animals coming into the state, as follows: 60 cattle, 9 calves, 147 sheep, 421 horses, 27 ponies, 1 mule, and quarantined 8 cows in order to give them the tuberculin test. One cow reacted and on slaughter she was found to be badly affected with tuberculosis and was forthwith rendered.

Two dogs were placed under quarantine for having bitten persons and were subsequently released after being under observation for two weeks.

No cases of hog cholera have occurred in the city during the year. The State has now this disease under almost perfect control.

The year has been a very favorable one for our animals as there has not been as much sickness as usual.

Respectively submitted,

HARRY LUKES,
Inspector of Animals.

BOARD OF HEALTH.

ORGANIZATION OF HEALTH DEPARTMENT

BOARD OF HEALTH.

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EDGAR H. GUILD, M.D.

PHILIP V. ERARD.

EDGAR H. GUILD, M.D.,
Health Physician and Bacteriologist.

WILLIAM L. YOUNG,
Agent and Clerk.

GRACE E. WARREN, *Chief Clerk.*
MARY E. MACDONNELL, *Office Clerk.*
ANNA C. O'CONNELL, *Office Clerk.*

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*ALGER P. BLAINE,
WILLIAM F. BOYLE,
WILLIAM J. HASSETT,
DANIEL J. MAHONEY,
WILLIAM J. TATE, JR.
HENRY WRIGHT, JR.

INSPECTORS OF MILK.

STEPHEN C. DOWNS,
FRED L. ROBERTSON.

INSPECTOR OF VINEGAR.

STEPHEN C. DOWNS.

INSPECTOR OF ANIMALS, MEATS AND PROVISIONS.
INSPECTOR OF SLAUGHTERING.

HARRY LUKES, D.V.S.

HEALTH DEPARTMENT HOSPITAL.

1414 State Street.

EDGAR H. GUILD, M.D., *Physician in Charge.*

CONSULTANTS.

EVERETT A. BATES, M.D.

DUDLEY CARLETON, M.D.

CONTAGIOUS DISEASES.

Visiting Physicians.

*ORLAND R. BLAIR, M.D.

*HENRY RITTER, M.D.

*RALPH B. OBER, M.D.

*CHARLES E. STREET, M.D.

TUBERCULOSIS.

Visiting Physicians.

LAURENCE D. CHAPIN, M.D.

*WALTER A. HOSLEY, M.D.

GEORGE L. WOODS, M.D.

Aurist and Laryngologist.

WILLIAM A. HARE, M.D.

Roentgenologist.

*ERNEST L. DAVIS, M.D.

ETHEL I. MINKLER, *Matron.*

MEDICAL INSPECTORS OF SCHOOLS.

EDGAR H. GUILD, M.D., *Director.*

WALTER H. CHAPIN, M.D.

*HENRY RITTER, M.D.

MICHAEL W. HARRINGTON, M.D.

ERDIX T. SMITH, M.D.

JAMES P. HILLARD, M.D.

*CHARLES E. STREET, M.D.

*WALTER A. HOSLEY, M.D.

*EDWARD J. SWEENEY, M.D.

URGEL LABELLE, M.D.

*JOSEPH N. BOYER, JR., M.D.

GEORGE T. LAMARCHE, M.D.

ROBERT E. CAMFILL, M.D.

*RALPH B. OBER, M.D.

FRANK K. DUTTON, M.D.

THOMAS F. REARDEN, M.D.

JOHN M. MALONEY, M.D.

*ALLEN G. RICE, M.D.

JOSEPH T. MCGINITY, M.D.

SCHOOL NURSES.

MARGUERITE ARMSTRONG.	MARY CONROY.
*MARY A. HICKEY.	*ALICE M. CRAWFORD.
*ELIZABETH N. JOYCE.	VERA HALL.
*MARTHA R. JOYCE.	JENNIE M. ROURKE.

DISPENSARY FOR TUBERCULOSIS.

137½ State Street.

EDGAR H. GUILD, M.D., *Director*.

DISPENSARY PHYSICIANS.

- WALTER H. CHAPIN, M.D., *Chief of Clinic*.
*PARKER M. CORT, M.D.
*ERNEST H. JUDD, M.D.
*JOHN M. TRACY, M.D.

-
- EDNA R. BIRDSALL, *Department Nurse*.
*WINIFRED A. HANNIGAN, *Department Nurse*.
ADALINE B. PERRY, *Clerk and Visitor*.

DENTAL CLINIC.

- FRANK W. MOULTIS, D.D.S., *School Dentist*.
RUTH I. PERRIN, *Dentist's Assistant and Clerk of Clinic*.

*Our "Roll of Honor." In service of the United States.

THIRTY-SEVENTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

To His Honor, The Mayor, and Members of the City Council:

GENTLEMEN:—The general interest which has been shown during the year in all matters relating to the protection of the public health and the prevention of disease, affords the opportunity for health officials to emphasize the essential importance of public and individual co-operation in any and all measures which are taken to improve the standards of health in any community.

The underlying essentials of public hygiene, sanitation, and healthy standards of living conditions have been advocated for years, and form the basis of all Health Department activities at the present time; but the observance of the laws of hygiene and right living is entirely voluntary on the part of the individual, and until the indifference and carelessness so often manifested is replaced by personal responsibility, the educational work in matters affecting the standards of health cannot be expected to show marked results from year to year.

As health conditions return to their normal state the temporary interest and anxiety caused by the epidemic should not be allowed to subside, but should be continued in the development of personal and family responsibility and duty towards others in matters concerning the public health.

The rules and regulations for controlling diseases dangerous to the public health are of a restrictive nature and entirely different in purpose from the constructive and educational work, which is being developed under the various activities, as carried on by Medical Supervision of Schools, and Child Welfare Work, Dispensary for Tuberculosis, Dental Clinics, Social Service Work of Public Health Nurses. As the value of this work is better understood, and the individual realizes his duty and does his part, the restrictive functions of health departments will be lessened in many ways.

The economic value of health is being recognized by large employers of

labor, who, in addition to the state regulations affecting sanitation and protection of workers, maintain a careful oversight of all employees and their families as well as their housing and living conditions. Life insurance companies recognize the importance of prolonging the life of their policy holders and without doubt have demonstrated that the Life Extension Service, so freely furnished, is a good business proposition for all concerned.

If good health and right living are such important factors in the economic efficiency which is essential for success in all industrial enterprises at the present time, the enlargement of Health Department activities in educational directions should meet with a hearty response from the individual who is the actual beneficiary.

In this connection it has been well said that "Organized society can buy clean pure water and it can purchase a successful food inspection, but it cannot buy habits of personal hygiene that produce human health, that defend the individual from disease, and postpone his death. It cannot purchase health habits that give the individual resistance of disease, making it harder for him to become sick and easier to recover. It cannot purchase the consciousness of individual obligation in health affairs that is essential to an effective defense of community health." In other words individual obligation represents the essential element which must be aroused and maintained for any permanent advance in the health of the community as a whole.

The establishment of this personal interest calls for untiring effort and the most promising direction from which results can be obtained is during the formative period of life, before habits and ideas are formed which are difficult to change. This instructive and educational work properly begins with the prenatal period of life, at which time a lessening of the number of stillbirths is to be the end in view. During the first two years of life the lowering of infant mortality rates through the proper feeding and care of infants is undertaken. The period remaining until school life begins affords opportunities for much more specific effort than has been yet undertaken, as it is believed that many defects and ailments, if properly recognized and cared for at this time, would materially improve the physical condition of children upon their first entrance to the public schools. It is during the ten years of school life that the health and well-being of the future citizens of the community should be guarded and developed, and the principles of hygiene, sanitation, and definite habits of right living, and all which the term implies, receive that attention in the educational system in the public schools which it deserves. It is also the only method

which is available for such instruction to the large number of children whose education on these subjects is finished when leaving school.

TRANSACTIONS AND GENERAL WORK OF THE DEPARTMENT.

The Board of Health organized for the year by electing Thomas F. Rearden, M.D., chairman, and William L. Young, clerk. A complete list of the employees of the department accompanies the report.

Eighteen regular meetings and ten special meetings of the Board were held during the year. Twenty-eight stable licenses were granted and ten applicants given leave to withdraw. Four applications were laid on the table. Eighteen undertakers' licenses were issued and eleven licenses were granted to practice manicuring, massage, and giving of vapor baths, and one applicant for the latter purpose given leave to withdraw. Applications for the operation of five lying-in hospitals and three for infant boarding houses were approved. One license was granted to kill horses.

Leave of absence was granted to thirteen physicians and four nurses for military service, namely: Medical inspectors, Dr. Joseph N. Boyer, Jr., Dr. Walter A. Hosley, Dr. Ralph B. Ober, Dr. Allan G. Rice, Dr. Henry Ritter, Dr. Charles E. Street, Dr. Edward J. Sweeney. Hospitals and dispensary physicians: Dr. Orland R. Blair, Dr. Parker M. Cort, Dr. Ernest L. Davis, Dr. Ernest H. Judd, and Dr. John M. Tracy. Nurses: Mary A. Hickey, Winifred A. Hannigan, Elizabeth N. Joyce, Martha R. Joyce. Alger P. Blaine, sanitary inspector, was also granted leave of absence for military service. Dr. George T. Lamarche was granted leave of absence on account of illness. The vacancies so caused were filled by the following temporary appointments: Dr. R. E. Camfill, Dr. F. K. Dutton, Dr. J. T. McGinity, Dr. J. M. Mafoney, Dr. Lee MacPhee. Nurses: Edna R. Birdsall, Mary Conroy, Vera Hall, Jennie M. Rourke. Alice E. Crawford was appointed permanent school nurse; Joseph N. Boyer, Jr., M.D., permanent medical inspector; William J. Tate, Jr., temporary sanitary inspector; Anna E. O'Connell, appointed office clerk. Frank A. Sweeney, D.D.S., was appointed dentist for the dental clinic, but resigned before beginning duties. Frank W. Moulitis, D.D.S., was appointed to fill the position. Ruth I. Perrin was appointed dentist's assistant and clerk of the clinic. Dr. Myron E. Chapin was appointed temporary inspector of slaughtering. Chapter 130, Acts of 1918, requires the appointment of some person whose duty it shall be to give notice to the State Department of Health of diseases dangerous to the public. Grace E. Warren, chief clerk of the department, was appointed for the position.

Rules one and four, of regulations relating to control of diseases dangerous to the public health, were amended by the addition of influenza and the following rule added to the list:—

RULE 15.

"All persons suffering from influenza shall be isolated for a period of ten days from date of notification given to the Board of Health. Such isolation shall be maintained to the satisfaction of the Board of Health and subject to such penalties as are provided in the Statutes.

"No person except the attending physician and necessary caretakers shall enter any room where a person is sick with said disease.

"All children exposed to influenza shall be excluded from school for a period of five days dated from the latest exposure to the disease."

The following regulation was adopted:—

REGULATION PROHIBITING THE USE OF COMMON CIGAR CUTTERS.

The use of a common cigar cutter in any store, saloon, restaurant, or other public place is prohibited.

The term "common cigar cutter" as used in this regulation shall be considered to mean any device for clipping the ends of cigars, intended to be used by more than one person.

Adopted by the Board of Health, October 3, 1918.

On account of the epidemic of influenza, it was voted to prohibit the opening of schools, theaters, moving-picture houses, dance halls, or other places of amusement, or the holding of public gatherings with the exception of church services, on and after September 27th, 1918, until further notice. This closing order remained in effect until October 31st, when it was rescinded by the Board. The establishment of a dispensary for venereal diseases at the Springfield Hospital was approved by the Board as affording the best facilities for the proper treatment of these diseases.

The plans of the Springfield Emergency Health Committee for the after care of influenza patients was approved. The work of the department is summarized in the tables distributed throughout the report and shows the variety and character of the work which is being carried on by the Department. The clerical work has increased to such an extent that an additional clerk is necessary. The personal interest shown by the employees of the Department in the performance of their individual duties is worthy of mention and greatly appreciated, as it is only through such interest that the best results can be obtained. The work of the different divisions of the Department is mentioned in detail and indicates the responsibility resting upon the administrative and executive officials

in the development of public health work, which is essential from year to year as the importance of community health is more fully recognized.

SUMMARY OF THE GENERAL WORK OF THE DEPARTMENT.

COMPLAINTS INVESTIGATED AND CAUSE REMOVED.

Alleys, insanitary, ...	22
Animals, dead, not removed, ...	11
Animals, keeping of, ...	13
Ashes, rubbish, and garbage on ground, ...	123
Buildings, odor in, ...	16
Cellars, insanitary, ...	51
Cesspools, overflowing, ...	14
Committing nuisance, ...	6
Complaints, investigated, no cause found, ...	18
Contagious diseases, suspected cases, ...	12
Contagious diseases, failure to observe rules relative to, ...	96
Dumping grounds, ...	20
Fowls, keeping of, ...	20
Garbage in cellar or house, ...	21
Garbage, insanitary receptacle, ...	47
Halls and stairways, insanitary, ...	9
Milk, adulteration of, ...	6
Milk, illegal bottling of, ...	5
Milk, contaminated, ...	6
Milk, unclassified, ...	35
Odors from unknown source, ...	17
Plumbing, insanitary, ...	22
Privy vaults, ...	9
Provisions, poor quality, ...	18
Sewer drains, stoppage of, ...	12
Sewer openings, odor from, ...	4
Slaughtering without license, ...	3
Slops thrown on ground, ...	6
Stables, ...	29
Standing water, odor from, ...	5
Stores, insanitary, ...	17
Stores, refuse not removed, ...	20
Street sweepings in yard, ...	5
Swine, keeping of, ...	19
Tenements, insanitary, ...	27
Tenements, overcrowded, ...	4
Unclassified, ...	57
Water closets, insanitary, ...	43
Water closets, without water, ...	63
Water closets, frozen, ...	34
Water closets, insufficient number, ...	3

SANITARY INSPECTIONS.

Classification.	Total Inspections.	Re- Inspections.	First Notices.	Complied.	Pend- ing.
Alleys.....	2,216	384	385	376	9
Cafes.....	284	0	0	0	0
Cellars.....	1,092	125	87	84	3
Cesspools.....	80	20	17	17	0
Dumps.....	82	11	9	9	0
For enforcement of Polluted Water Regulations.....	12	9	1	1	0
Garbage cans.....	2,185	77	72	71	1
Hallways.....	125	54	51	51	0
Poultry yards.....	251	35	31	31	0
Plumbing, defective.....	19	9	9	9	0
Plumbing, frozen.....	145	74	68	68	0
Stables.....	868	79	80	79	1
Stores.....	115	20	16	16	0
Vaults.....	102	20	18	18	0
Water closets.....	1,632	188	186	183	3
Yards.....	42,236	1,178	1,009	996	13
Keeping fowls in tenements.....	21	18	8	8	0
Dead animals on private property.....	26	18	18	18	0
For enforcement of Cigar Cutter Reg- ulation.....	21	20	20	20	0
Pool rooms and bowling alleys.....	117	16	16	16	0
Miscellaneous.....	1,195	107	89	89	0

Scarlet fever cases investigated.....	139
Diphtheria cases investigated.....	227
Typhoid fever cases investigated.....	29
Cerebro-spinal meningitis cases investigated.....	5
Anterior poliomyelitis cases investigated.....	4
Septic sore throat.....	1
Contagious diseases, suspected cases.....	100
Visits to tubercular cases.....	65
Visits to measles cases.....	7
Visits to eye cases.....	4
Mumps cases.....	5
Whooping cough cases.....	2
Visits to placarded houses.....	263
Visits to venereal disease cases.....	36
Visit to smallpox exposure.....	1
Diphtheria, swabs for release.....	187
Histories (settlement).....	214
Houses fumigated.....	566
Rooms fumigated.....	866
Houses placarded for influenza cases.....	1,709
Visits to remove cards, influenza cases.....	1,507

TENEMENTS.

Tenements inspected.....	1,199
Tenements reinspected.....	120
Tenements overcrowded.....	2
Tenements with dark rooms.....	19
Tenements in need of repairs.....	32
Water closets poorly ventilated.....	21

Number defects found and notices given, ...	95
Number pending, ...	1
Number complied with, ...	94

Defects and nuisances discovered.

Tenements needing cleaning, ...	7
Hallways needing cleaning, ...	2
Rubbish in cellars, ...	15
Water closets, defective, ...	29
Water closets, frozen, ...	8
Water closets needing cleaning, ...	21
Waste pipes leaking, ...	1
Sinks, defective, ...	2
Vaults needing cleaning, ...	10

MISCELLANEOUS.

Inspections, ...	61,590
Reinspections, ...	2,926
Total inspections, ...	64,516
Verbal notices, ...	2,723
Written notices, ...	125
Notices served, ...	67
Nuisances abated by Board of Health, expense charged to owners, . .	9
Stable licenses granted, ...	28
Given leave to withdraw, ...	10
Pending, ...	103
Undertakers' licenses granted, ...	18
Licenses granted to practice manicuring, massage, and giving of vapor baths, ...	11
Given leave to withdraw, ...	1

**NUMBER OF INSPECTIONS AND ACTION TAKEN TO
REGULATE CERTAIN BUSINESS ESTABLISHMENTS.**

CLASSIFICATION.	Number.	Inspections.	Written Notices.	Verbal Notices.	To Whitewash.	For Alterations.	Notices to Clean.	Other Notices.	Complied with.	Pending.
Bakeries.....	62	469	5	90	20	7	56	12	90	5
Bakery Salesrooms.....	9	47	....	3	....	....	....	3	3	....
Restaurants.....	119	1,016	1	128	10	4	100	15	129	
Candy Manufactories.....	6	4	....	....	....	....	....	....	....	....
Ice Cream Plants.....	43	142	2	45	8	13	26	....	47	....
Soda Fountains and Ice Cream Salesrooms.....	187	722	....	62	....	2	24	36	62	....
Soda Bottling Plants.....	6	20	2	5	....	....	6	1	7	....
Barber Shops.....	120	428	1	31	....	5	21	6	32	
Theaters.....	12	8	....	....	....	....	....	....	....	....
Licensed Lodging Houses..	20	37	....	1	....	....	1	....	....	1
Infant Boarding Houses...	3	6	....	....	....	....	....	....	....	....
Cafe Restaurants.....	18	100	....	11	....	1	10	....	11	....
Hotel Kitchens.....	12	51	....	5	2	....	3	....	5	....
Peanut Products Estab- lishment.....	1	8	....	....	....	....	....	....	....	....
Ice Cream Cone Manu- factories.....	1	2	....	....	....	....	....	....	....	....
Spaghetti Manufactories..	3	9	....	2	....	....	1	1	2	....

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

The State Department of Health designates the diseases considered dangerous to the Public Health and the statutes provide rules for physicians to follow in reporting all diseases so classified. The local Board of Health undertakes to control the dissemination of these diseases by means of regulations, which include isolation of patients, placarding of houses, exclusion of children from schools, removals to hospital, if necessary, and terminal disinfection. During the year influenza was added to the list of dangerous diseases and became a reportable disease, October 4th. Recognizing the very unusual demands which were made upon the medical profession during the epidemic, no action was taken for the delay or even failure at times to report cases of influenza by some of the physicians. It must be borne in mind, however, that any deductions which are made as to the prevalence, duration, and case mortality of any disease depends for their accuracy upon a definite knowledge as to the number of cases which occur. In this connection the inquiry has been made as to the combination of signs and symptoms which are necessary to call the disease influenza. Until the history of this pandemic is written a satisfactory definition will be hard to give and a different name may be used to indicate more definitely the complex and diverse nature of the infection.

Actinomycosis	Leprosy
Anterior Poliomyelitis	Malaria
Anthrax	Measles
Asiatic Cholera	Mumps
Chicken Pox	Pellagra
Diphtheria	Plague
Dog-bite (requiring anti-rabic treatment)	Pneumonia (lobar)
Dysentery:—	Rabies
a. Amebic	Scarlet Fever
b. Bacillary	Septic Sore Throat
German Measles	Smallpox
Glanders	Tetanus
Hookworm Disease	Trichinosis
Infectious Diseases of the Eye:—	Tuberculosis (all forms)
a. Ophthalmia Neonatorum	Typhoid Fever
b. Suppurative Conjunctivitis	Typhus Fever
c. Trachoma	Whooping Cough
Influenza	Yellow Fever

TUBERCULOSIS.

218 (240)* cases were reported during the year, 179 (203) pulmonary and 39 (37) all other forms. There were 124 (100) deaths from pulmonary tuberculosis and 28 (24) from all other types of the disease. The death rate is 1.221 (1.059) per one thousand population, which is the highest of any year since 1907, and emphasizes the great importance of the preventive work which should begin in early life. The prominence given to the care of active cases by removal to hospitals and other means of preventing dissemination should not be lessened, but the development of new cases will continue until the almost universal infection which occurs in early life can be prevented. This will in a great measure be accomplished through child welfare work, proper housing and living conditions, and the continued efforts of all the agencies which improve the health and standards of living in the community. An infection which is present, either active or dormant, in 80% of all children under five years of age shows the seriousness of the tuberculosis problem and explains the difficulties standing in the way of any immediate reduction in its manifestation in early adult life or at a somewhat later period. It means that the preventive work carried on will only produce results in the future and that the natural resistance to an active manifestation of the disease must be maintained at the highest possible standard in those already subjected to a dormant infection.

DIPHTHERIA.

227 (453) cases of diphtheria were reported during the year with 28 (59) non-resident deaths, giving a case mortality of 12.33% (13%). There were 27 laryngeal cases and 5 nasal. 26 (48) secondary infections occurred. 42 (150) gave a history of contact with other cases. 10 were imported cases, 9 made visits outside the city, and in 140 cases the source of infection could not be determined. 72 cases or 31% of the total number reported occurred in school children. The prevalence of measles or other contagious diseases does not bear any definite relation to the amount of diphtheria in the city, as shown by the monthly records covering a series of years of the various diseases. Any decrease in mortality from diphtheria can only be expected through early recognition of the disease and prompt use of antitoxin in all suspected cases.

SCARLET FEVER.

139 (366) cases were reported during the year with 3 (6) deaths. 23 (77) secondary infections occurred. 32 (114) gave a history of contact with

*Figures in parentheses indicate corresponding numbers in 1917.

other cases. 4 (7) cases were contracted out of the city, 6 made visits away from the city during the incubation period, and in 74 cases the source of infection could not be determined. 70 cases of the total number occurred in children attending the public schools. It is chiefly a disease of childhood and, therefore, its appearance in the public school is to be expected and it is only through constant watchfulness that the various contagious diseases do not assume larger proportions. The mortality remains low, which indicates the lessened virulence of the disease at the present time.

TYPHOID FEVER.

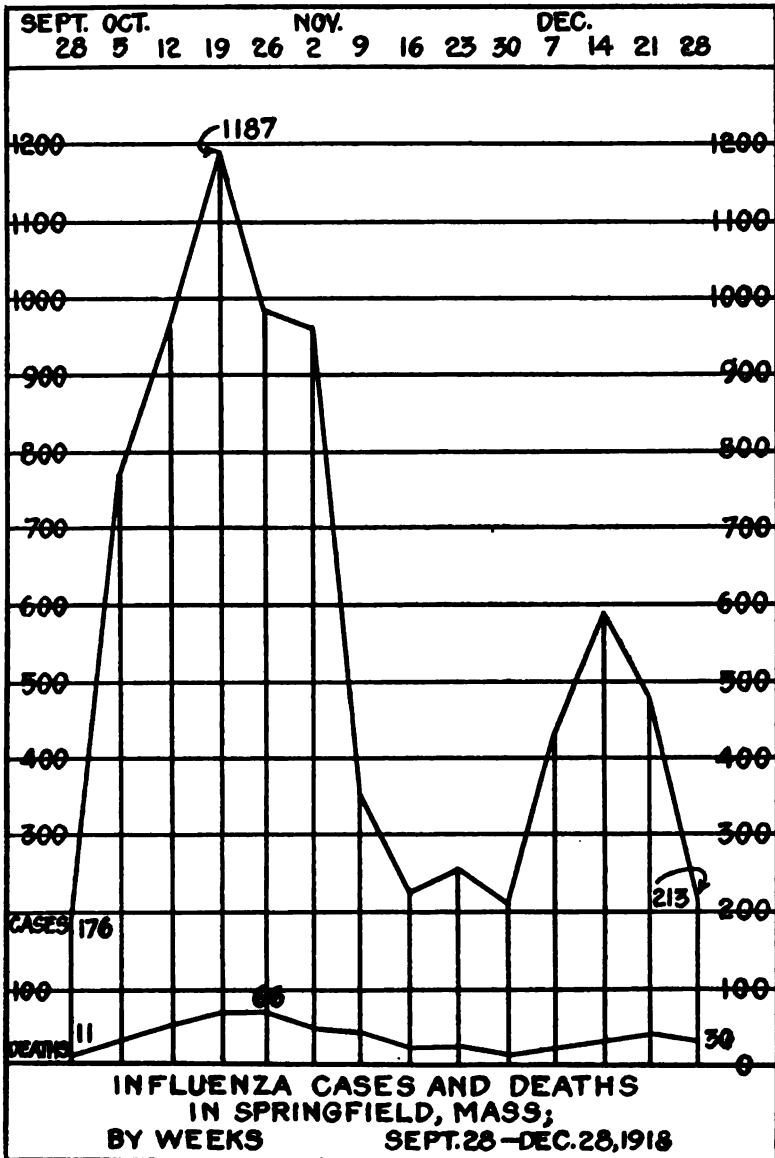
29 (55) cases of typhoid fever were reported during the year with 3 (6) deaths from resident cases, giving a case mortality of 10.34% (10.9%). 4 (8) were contracted away from home, 4 (14) made visits outside the city within 30 days previous to date of illness, and in 15 (29) cases the source of infection could not be discovered. 6 cases occurred on a milk dealer's route, who upon investigation was found to have a "typhoid carrier" in his employ. Although a definite connection could not be established as to the infection being conveyed through the milk supply, no chances were taken by retaining the "carrier," so called, in the milk business, and he has not been allowed to engage in any occupation connected with the handling of food.

INFLUENZA.

The pandemic of influenza which afflicted the city the last four months of the year developed so rapidly and with such virulence that the medical profession and the Health Department soon realized they were dealing with an infection, different in many respects from any previous manifestation of influenza or la grippe. Not being a reportable disease at the time of its appearance, physicians were requested to inform the Department of cases occurring in their practice and many physicians were called by telephone daily by the Department in order to obtain as definite knowledge as possible of the extent of the epidemic, and although comparatively few cases had occurred, an order prohibiting the opening of schools, theaters, moving-picture houses, dance halls, or other places of amusement, or the holding of public gatherings with the exception of church services, became effective September 27th, about a week after the appearance of the disease to any known extent. The closing order remained in force until October 31st. Influenza was made a reportable disease by the State Department of Health October 4th. In the interval between September 27th and October 4th through the publicity given by the press, to the

closing order, with requests made to physicians to aid the Department by reporting all cases, their number became more definitely known. In addition to the closing order, all soda water and ice cream parlors adopted individual glasses and dishes, with sterilization of spoons in many places. Barrooms and cafes were required to dispense with the usual tanks for washing glasses and use running water. Lunch rooms, bakeries, and stores where food was sold were ordered to remove all food from the counters and place in covered receptacles. Daily inspections were made in order to insure a compliance with the orders and the instructions were observed in the most satisfactory manner. Influenza bulletins were distributed throughout the city and during the continuance of the epidemic all reported cases received printed instructions as to the proper care and isolation of patients. Daily reports were obtained from each hospital stating the number of beds available for influenza patients, in order that the tentative plans being made by the Department for the equipment and operation of an emergency hospital might be executed without delay if at any time the capacity of the hospitals should be overtaxed.

The State Guard Field Hospital was available before such action became necessary and at the request of the proper officials came to Springfield and was located at Forest Park. It was open for the reception of patients from October 31st to November 14th. During this time (14 days) 229 patients were received, many being transferred from the local hospitals which were now being taxed to their capacity. 22 deaths occurred. Although the field hospital was not in any way under the management of local authorities, at the request of the Board daily reports were received of the admissions, discharges, and deaths. As the epidemic increased and more definite information became available after it was made a reportable disease, the number of cases occurring in the same family and its extremely contagious nature furnished sufficient evidence that more drastic closing orders should be issued which would practically paralyze the industries of the city or an attempt should be made to treat the disease as other contagious diseases are treated, by isolation of patients and placarding of houses. An order was therefore passed October 27th requiring the isolation of all patients for a period of ten days. The duration of infection being unknown, the period chosen seemed to cover the time in which fatal complications were liable to occur and was considered of great value in that respect alone. As a matter of fact the number of reported cases lessened decidedly in a few days and it may be fairly stated that the unreported cases were balanced by those reported not actually influenza. The hearty co-operation of the various committees, associations, and



societies with the Department in its efforts to control the epidemic, along with many offers of personal aid and approval of methods being taken, was very gratifying, and furnished the care and relief that was needed in many families which would have been impossible to secure in any other manner. The list includes The Public Safety Committee, The Emergency Health Committee, The Union Relief Association, Day Nursery, Visiting Nurses' Association, Hampden County Chapter of the Red Cross, Children's Aid Society, Fisk Athletic Association, Central Labor Union, Patriotic League, Boy Scouts, Volunteer Women Workers, besides individual offers of services and the most generous offer of a large building for hospital purposes. All the nurses of the Department devoted their time and service to the care of influenza patients during the month of October under the direction of the Visiting Nurses' Association. Each of the different associations carried on their special line of work in a fine spirit of united effort and it would be impossible to overestimate the value of the services rendered. All the hospitals utilized their facilities for the treatment of influenza in preference to other diseases or operative work and maintained their well-known reputation in the successful results obtained.

380 cases of influenza were reported in September, 4,166 in October, 1,164 in November, and 1,780 in December, making a total of 7,490 for the year. There were 518 resident deaths from influenza and its complications and 96 non-resident deaths, making a total of 614, or a case mortality, excluding non-resident deaths, of 6.9%. The mortality rate per 1,000 population is 4.16%. The actual number of cases may have been greater than the number reported, but any increase in that direction would lower the case mortality, which represents the seriousness of the epidemic, while the number of cases indicates the extent. A study of the death returns shows that 63 deaths were from influenza alone, and the balance from respiratory complications or infections either pneumonic or broncho-pneumonic. A few deaths were due to meningeal involvement. In the classification causing deaths, they are tabulated as influenza and pneumonic influenza, numbers 10 and 92-a respectively. The tables show that the largest number of cases occurred in the age period from 26 to 35 and in the most congested districts of the city. 2,280 cases occurred in children under 15 years of age with a mortality rate of 3.9%. A large number of these cases were secondary infections from other members of the family.

The experience or statistics of the epidemic in one city would not justify any final conclusion which might now be made as to the proper procedures to be taken in any future epidemic. The great variety of methods used by health officials throughout the country has failed to demonstrate the

marked superiority of any special procedure. When the infective agent is positively known along with the incubation period, the duration of the infection, its mode of transmission, and the immunity established in recovered cases, a standard method can easily be established. It is confidently believed, however, from the present knowledge of the disease, that isolation of all those having the disease will occupy an important place in all future efforts made for its control.

OTHER DISEASES DANGEROUS TO THE PUBLIC HEALTH.

4 (10) cases of anterior poliomyelitis were reported during the year with 0 (8) deaths; cerebro-spinal meningitis, 5 (10) cases with 4 (7) resident deaths. Of the milder infectious diseases, 168 (722) cases of German measles; measles, 990 (531) cases with 13 (6) deaths; whooping cough, 299 (105) with 36 (3) deaths, show a much higher mortality than the previous year. 73 (57) cases of infectious diseases of the eyes in infants were reported during the year, all of which were investigated and received such care and attention as were necessary. Two cases of trachoma were reported.

TABLE SHOWING DEATH RATE OF TUBERCULOSIS FROM 1890, ESTIMATED ON POPULATION.

YEAR	POPULATION	DEATHS	RATE
1890	*44,179	114	2.58
1895	*51,522	97	1.88
1900	*62,059	111	1.78
1901	64,412	122	1.96
1902	66,854	111	1.66
1903	69,389	114	1.64
1904	72,020	123	1.7
1905	*73,540	120	1.63
1906	76,255	116	1.52
1907	78,707	114	1.44
1908	81,425	91	1.11
1909	84,237	101	1.19
1910	*88,926	87	.97
1911	92,048	101	1.09
1912	96,973	101	1.04
1913	100,877	99	.98
1914	104,949	109	1.03
1915	*102,971	101	.98
1916	106,365	91	.85
1917	117,058	124	1.059
1918	124,409	152	1.221

* Official census.

DEATHS FROM TUBERCULOSIS—1918**(Pulmonary)****BY WARDS AND MONTHS.**

Wards.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	2	2	....	2	....	1	....	3	2	2	1	3	18
2	4	3	3	2	1	2	2	2	2	2	1	2	26
3	1	2	1	2	1	....	....	....	1	1	....	2	11
4	1	....	....	2	2	6	....	1	2	2	1	1	18
5	1	1	2	3	....	1	1	....	1	....	2	2	14
6	1	1	2	1	1	1	1	....	1	....	1	....	10
7	....	....	....	....	....	1	....	....	....	1	....	....	2
8	....	2	1	4	....	1	3	....	2	3	....	....	16
Non-residents	....	2	....	1	....	2	1	....	1	1	1	....	9
Totals	10	13	9	17	5	15	8	6	12	12	7	10	124

TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES, 1918, BY WARDS.

DISEASES.	WARDS.									
	1	2	3	4	5	6	7	8	Non-Res.	Totals.
Actinomycosis .....	....	....	....	....	....	....	....	....	....	....
Anterior Poliomyelitis....	....	1	....	1	....	1	1	....	....	4
Anthrax.....	....	....	....	....	....	....	....	....	....	....
Asiatic Cholera.....	....	....	....	....	....	....	....	....	....	....
Cerebro-Spinal Meningitis	1	2	....	....	1	....	....	1	....	5
Chicken Pox	6	24	6	22	82	15	15	43	....	163
Diphtheria	40	58	22	27	15	12	28	24	1	227
Dog-bite (requiring anti-rabic treatment).....	....	....	....	....	....	....	....	....	....	....
Dysentery:—										
a. Amebic.....	....	....	....	....	....	....	....	....	....	....
b. Bacillary.....	....	....	....	....	....	....	....	....	....	....
German Measles.....	10	8	7	26	29	31	24	33	....	166
Glanders .....	....	....	....	....	....	....	....	....	....	....
Hookworm Disease.....	....	....	....	....	....	....	....	....	....	....
Infectious Diseases:—										
a. Ophthalmia Neonatorum	10	19	8	15	4	4	4	5	1	70
b. Suppurative Conjunctivitis.....	....	....	2	....	....	....	1	....	....	8
c. Trachoma.....	1	1	....	....	....	....	....	....	....	2
Influenza.....	871	1,479	608	816	502	698	761	1,327	58	7,110
Leprosy .....	....	....	....	....	....	....	....	....	....	....
Malaria .....	....	....	....	1	....	....	....	....	....	1
Measles	113	227	42	34	84	113	220	157	....	990
Mumps	15	77	40	41	58	37	48	82	....	898
Pellagra.....	....	....	....	....	....	....	....	....	....	....
Plague.....	....	....	....	....	....	....	....	....	....	....
Pneumonia (Lobar).....	89	175	114	86	88	57	71	108	69	852
Rabies.....	....	....	....	....	....	....	....	....	....	....
Scarlet Fever.....	12	20	9	15	8	10	35	30	....	139
Septic Sore Throat.....	....	....	....	....	....	....	....	1	....	1
Smallpox .....	....	....	....	....	....	....	....	....	....	....
Tetanus	1	....	....	....	....	....	....	....	....	1
Trichinosis.....	....	....	....	....	....	....	....	....	....	....
Tuberculosis:—										
Pulmonary.....	27	43	25	14	15	8	11	34	2	179
Other Forms	6	7	6	6	5	3	....	4	2	39
Typhoid Fever.....	1	8	8	4	5	4	....	4	....	29
Typhus Fever.....	....	....	....	....	....	....	....	....	....	....
Whooping Cough	44	36	48	22	23	41	50	35	....	299
Totals	1,247	2,180	940	1,180	869	1,029	1,269	1,883	131	10,680

TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES BY MONTHS—1918.

DISEASES.	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Actinomycosis ..	....	....	....	....	....	....	....	....	....	....	....	....	....
Anterior Polio-myelitis ..	....	....	....	1	....	1	....	2	....	....	....	....	4
Anthrax .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Asiatic Cholera ..	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebro - Spinal Meningitis ..	....	1	....	....	....	1	1	....	1	1	....	....	5
Chicken Pox	38	13	14	18	42	11	7	2	51	5	8	5	163
Diphtheria	48	21	17	28	15	16	14	9	13	14	15	2	227
Dog-bite (requir- ing anti-rabic treatment) ..	....	....	....	....	....	....	....	....	....	....	....	....	....
Dysentery:—	....	....	....	....	....	....	....	....	....	....	....	....	....
a. Amebic .....	....	....	....	....	....	....	....	....	....	....	....	....	....
b. Bacillary ..	....	....	....	....	....	....	....	....	....	....	....	....	....
German Measles ..	28	33	37	22	28	13	1	2	1	1	1	1	168
Hookworm Dis- ease .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Glanders .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Infectious Dis- eases of the Eye:—	....	....	....	....	....	....	....	....	....	....	....	....	....
a. Ophthalmia Neonatorum ..	2	7	5	2	11	7	7	5	6	8	7	3	70
b. Suppurative Conjunctivitis ..	....	....	....	....	....	1	....	1	....	....	....	1	3
c. Trachoma .....	....	1	....	....	....	....	....	....	1	....	....	....	2
*Influenza .....	....	....	....	....	....	....	....	....	4,166	1,164	1,780	....	7,110
Leprosy .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Malaria .....	....	....	....	....	....	....	....	....	....	....	....	1	1
Measles	97	201	135	214	208	96	35	6	1	2	....	....	990
Mumps	42	38	75	76	85	48	16	1	7	6	8	1	898
Pellagra .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Plague .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pneumonia (Lobar) ..	37	50	55	56	33	11	16	3	51	326	87	127	852
Rabies .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Scarlet Fever	35	15	24	23	15	1	4	....	6	8	1	7	139
Septic Sore Throat .....	....	....	1	....	....	....	....	....	....	....	....	....	1
Smallpox .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus .....	....	....	....	....	1	....	....	....	....	....	....	....	1
Trichinosis .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tuberculosis:—	....	....	....	....	....	....	....	....	....	....	....	....	....
Pulmonary	11	18	11	17	18	19	18	14	25	10	7	11	179
Other forms	2	6	7	3	6	1	4	1	2	3	1	3	39
Typhoid Fever	1	....	....	....	3	3	4	7	10	1	....	....	29
Typhus Fever .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Whooping Cough ..	16	14	80	26	30	33	42	19	38	23	20	8	299
Yellow Fever .....	....	....	....	....	....	....	....	....	....	....	....	....	....
Totals	357	418	411	481	490	262	169	72	167	4,514	1,309	1,970	10,680

* Reportable from October 4, 1918.

TABLE SHOWING REPORTED CASES AND DEATHS OF COMMUNICABLE DISEASES BY YEARS WITH POPULATION.

DISEASES.	1913. 100,877		1914. 104,949		1915. *102,971		1916. 106,365		1917. 117,058		1918. 124,409	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Actinomycosis			1		1							
Anterior Poliomyelitis.....	12	1	6	2	7	3	87	22	10	8	4	
Anthrax.....					1							1
Asiatic Cholera.....												
Cerebro-Spinal Meningitis.....	4				2	2	4	3	10	7	5	5
Chicken Pox.....	81		141		180		126		251		163	
Diphtheria.....	191	16	139	13	142	10	176	18	453	64	227	31
Dog-bite (requiring anti-rabic treatment).....					2							
Dysentery:—												
a. Amebic.....												
b. Bacillary.....												
**German Measles.....					23		25		722		168	
Glanders.....									1	1		
Hookworm Disease.....												
Infectious Diseases of the Eye:—												
a. Ophthalmia Neonatorum..	14		7		73		64		57		70	
b. Suppurative Conjunctivitis					3		2				3	
c. Trachoma.....	1		2								2	
†Influenza.....											7,110	614
Leprosy.....									1			
Malaria.....					2		3				1	
Measles.....	617	9	190	9	611	3	1293	14	531	6	990	13
Mumps.....			3		135		138	1	201		398	
Pellagra.....							1	1				
Plague.....												
***Pneumonia (Lobar).....									84	124	852	182
Rabies.....												
Scarlet Fever.....	181	3	87	1	117	1	240	3	366	6	139	3
Septic Sore Throat.....					3	3	1	4	3	2	1	
Smallpox.....									1			
Tetanus.....			1	1	1	1	1	1	3		1	
Trichinosis.....							13					
Tuberculosis (all forms).....	125	99	173	109	173	101						
Pulmonary.....							152	66	203	100	179	124
Other.....							26	25	37	24	39	28
Typhoid Fever.....	81	20	57	22	48	11	30	5	55	7	29	4
Typhus Fever.....												
Whooping Cough.....	38	6	78	2	325	18	132	2	105	3	299	36
Yellow Fever.....												
Totals.....	1412	154	951	159	1847	154	2514	165	3094	352	10,680	432

*Official census.

**Tabulated as measles until 1915.

*** Reportable since May 14, 1917.

† Reportable since October 4, 1918.

TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES BY AGE PERIODS AND SEX, 1918

Ages.	Under 1 yr.		1-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75-84		Over 85		Total		Total Cases	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Sex.																														
Diseases.																														
Actinomycosis.....																													4	
Anterior Poliomyelitis.....	1	1	2																										3	
Anthrax.....																														
Anti-Cholera.....																														
Chicken Pox.....	3	5	23	38	44	10	4	2	2	4	3																		82	
Diphtheria.....	4	49	28	43	38	15	5	2	2	19	6	9	4																125	
Dysentery (requiring anti-rabic treatment).....																													102	
Dysentery—																														
a. Amebic.....																														
b. Bacillary.....																														
German Measles.....	4	2	14	16	22	36	6	16	5	9	4	12	8	1	3														64	
Glanders.....																													104	
Hookworm Disease.....																														
Infectious Diseases of the Eye—																														
a. Ophthalmia Neonatorum.....	42	27	1																										42	
b. Suppurative Conjunctivitis.....	2																												2	
c. Trachoma.....	43	23	311	287	522	457	272	365	200	274	238	497	785	995	435	469	144	157	48	57	16	19	2					3014		
*Influenza.....																														
Leprosy.....																														
Malaria.....																														
Measles.....	16	20	184	167	232	207	24	26	15	25	11	17	15	18	5	5	2	1											504	
Mumps.....	2	1	23	20	115	98	29	26	11	13	6	8	16	12	8	3													504	
Pellagra.....																													214	
Plague.....																														
Pneumonia (Lobar).....	10	5	36	25	27	19	10	10	27	18	52	64	158	120	81	52	35	23	17	20	10	17	2	6	3	5	468	384	852	
Rabies.....																														
Scarlet Fever.....																														
Septic Sore Throat.....	20	18	30	30	30	8	13	1	3	2	1	6	6																67	
Smallpox.....																													72	
Tetanus.....																													1	
Trichinosis.....																														
Tuberculosis—																													1	
Pulmonary.....																														
Other.....	3	8	1	1	4	6	10	11	11	43	25	19	11	13	6	5	3	1	2										102	
Typhoid Fever.....	2	9	6	1	8	1	2	1	2	5	2	3	2	1	1	1													77	
Typhus Fever.....	1	1	1	2	3	1	1	1	4	2	3	4	2	1	2	1													23	
Whooping Cough.....																													18	
Yellow Fever.....	30	19	56	68	55	54	2	5		2	2	1	1																147	
Totals.....	153	106	731	868	1089	990	381	475	271	357	333	636	1051	1204	559	551	200	192	71	81	29	39	2	9	3	5	4878	5308	494	10680

*Reportable since Oct. 4, 1918.

HEALTH DEPARTMENT HOSPITAL.

237 (397) patients were admitted to the different wards of the hospital during the year. The admissions for diphtheria represent 40% (35.5%) of the total number of cases reported and 32.4% (33%) of scarlet fever cases. The case mortality for diphtheria was 14.4% (17%). 17 deaths occurred in the contagious wards, 13 from diphtheria, 2 living less than 20 minutes and 3 less than 24 hours after admission. 3 had pneumonia and 5 were neglected septic cases. 1 death occurred from scarlet fever and 3 deaths from other diseases. 515,500 units of antitoxin were used during the year in the treatment of diphtheria. 8 (4) cases of ophthalmia neonatorum were treated, with recovery. 18 (6) cases of measles and 1 (3) case of poliomyelitis were received.

68 (89) cases of pulmonary tuberculosis were admitted during the year. 38 (58) were males. 30 (31) were females. Although 21 more tubercular patients were admitted in the previous year the total days for this year were 8,275 and last year 8,324, showing an average of 121.7 days per each patient this year and 93.5 days last year. The tuberculosis wards are maintained for the care of advanced cases; 16 (27) were discharged with conditions greatly improved and 1 case was discharged with disease arrested. 41 (42) deaths from tuberculosis occurred. The tuberculosis wards are inadequate for any increased number of patients and the enlargement of the hospital for this purpose should include provisions for contagious diseases with all the facilities and accommodations which are necessary in the operation of a hospital which should have a bed capacity planned for the future needs of the city. The plans already made for the enlargement of the hospital will provide for the requirements of tuberculosis patients liable to be made by the State Department of Health at any time, and afford proper accommodations for the care of the various contagious diseases.

CONTAGIOUS DISEASE WARDS.

1918.

Number of patients in hospital December 31, 1917, ...	22
Number of patients admitted during year, ...	169
Number of intubations for diphtheria, ...	12
Number of deaths following intubation, ...	8
Number of private patients admitted during year, ...	34
Number of physicians treating private patients, ...	20
Total number of days for diphtheria patients, ...	1,371
Average number of days for diphtheria patients, ...	15.2
Total number of days for scarlet fever patients, ...	1,965
Average number of days for scarlet fever patients, ...	43.5
Total number of days for other diseases, ...	440
Total number of days for all diseases, ...	3,776
Number of deaths from scarlet fever, ...	1
Number of deaths from diphtheria, ...	13
Number of deaths from other diseases, ...	3
Total number of deaths from all diseases, ...	17

PATIENTS ADMITTED BY MONTHS.

1918.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	De c.	Totals
Diphtheria	10	6	9	13	7	10	5	4	6	9	6	5	90
Scarlet Fever	6	3	7	10	3	..	1	..	2	7	..	6	45
Ophthalmia Neonatorum	..	2	1	..	..	1	2	..	1	1	..	..	8
Others	2	2	..	..	..	..	1	1	..	1	..	..	7
Mixed Infections	..	1	..	..	..	..	..	..	..	..	..	..	1
Anterior Pollomyelitis	..	..	..	..	..	..	..	1	..	..	..	..	1
Measles	4	2	4	2	1	..	4	..	..	..	..	..	17
Totals	22	16	21	25	11	11	13	6	9	18	6	11	169

AGE OF PATIENTS.

1918.

Age	Under 1		1-4		5-9		10-19		20-29		30-39		40-49		Over 50		Totals
Sex	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Diphtheria	2	1	17	14	14	8	7	3	2	17	2	3	..	..	..	..	90
Scarlet Fever	..	..	3	5	5	10	4	6	5	4	1	1	..	..	..	..	44
Ophthalmia Neonatorum	5	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	8
Others	1	..	3	..	1	1	..	..	1	..	..	..	..	..	..	..	7
Mixed Infections	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Anterior Poliomyelitis	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles	2	..	2	2	2	2	1	3	1	2	1	..	..	..	..	..	15
Totals	10	4	25	22	21	22	13	12	8	24	4	4	..	..	..	..	169

TUBERCULOSIS WARDS.

1918.

Patients in hospital December 31, 1917, ...	26
Patients admitted during year, ...	68
Number discharged with disease arrested, ...	1
Number discharged, improved, ...	16
Number discharged, condition not improved, ...	10
Number transferred to other institutions, ...	5
Number discharged for refusal to obey hospital rules, ...	1
Number of deaths, ...	41
Total number of days for patients, ...	8,275
Average number of days per patient, ...	88
Number condition improving December 31, 1918, ...	9
Number condition not improving, ...	11
Number of patients in hospital December 31, 1918, ...	20

AGE OF PATIENTS.

Tuberculosis Wards. 1918.

Age	Under 1 year		1-4		5-9		10-19		20-29		30-39		40-50		Over 50	Totals
Sex	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Tuberculosis	..	..	..	..	..	..	1	2	14	11	12	8	5	6	6	8

PATIENTS ADMITTED BY MONTHS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Tuberculosis	3	7	4	7	5	7	6	9	4	6	3	7	68

DISPENSARY FOR TUBERCULOSIS.

A general outline of the position which the dispensary undertakes to maintain in the campaign against tuberculosis was given in the report of previous years and the co-operation of all agencies interested in tuberculosis as well as physicians having such patients under their care has been extremely helpful in developing the work. 160 new patients were examined at the dispensary during the year. 68 were tubercular and are under dispensary supervision. Patients returning from state sanatoria report to the dispensary and their conditions are looked after. The majority of patients coming to the dispensary or under its care are in the more or less advanced stages of the disease and up to the present time very little intensive work has been undertaken with incipient cases. These patients are referred to sanatoria. The purely preventive work has been more directly carried on by the Anti-Tuberculosis Association except as far as it relates to families where a tuberculosis patient is under the care of the dispensary. During the height of the epidemic the dispensary nurses were detailed to the care of the influenza patients as requested by the Visiting Nurses' Association. An additional nurse is required to give the necessary attention to the larger number of patients who are gradually coming under dispensary supervision.

DISPENSARY FOR TUBERCULOSIS.

Report for year of 1918.

Number new patients,.....	160
Number not tubercular,.....	92
Number visits to dispensary, new and old patients,.....	318
Number patients under dispensary supervision during year,.....	265
Number positive sputum examinations,.....	41
Number negative sputum examinations,.....	44
Number first visits made at homes,.....	{ Nurse,..... 92
	{ Visitor,..... 113
Number subsequent visits made at homes,.....	{ Nurse,..... 681
	{ Visitor,..... 1,070
Number visited unable to attend clinic,....	{ Nurse,..... 74
	{ Visitor,..... 90
Number visits made on above,.....	{ Nurse,..... 174
	{ Visitor,..... 285
Number patients improving,.....	68
Number patients not improving,.....	197
Number dispensary patients admitted to Health Department hospital during the year,.....	21
Number dispensary patients admitted to other hospitals during the year,.....	19
Number patients returned from above, reporting to dispensary during the year,.....	100
Number moved out of town (not to sanitarium or hospital),.....	22
Number deaths of dispensary patients during the year,.....	83
Changed diagnosis,.....	5
Number arrested cases,.....	6

LABORATORIES.

The total number of examinations made in the bacteriological laboratories during the year was 1,883 (3,401), divided as follows: Diphtheria 1,376 (2,820), tuberculosis 466 (494), and typhoid fever 41 (90). The facilities of the laboratory were offered to the United States Guard stationed in the city and were freely used by the medical officers. The various laboratory outfits are always available at any time as well as diphtheria antitoxin, typhoid vaccine, and nitrate of silver solution for ophthalmia. It should always be borne in mind that negative laboratory findings in tuberculosis and typhoid fever does not exclude the presence of these diseases or relieve the physician of responsibility in reporting them. The same is true in laryngeal diphtheria. Failure to obtain the bacillus in other forms of diphtheria is so rare, however, that it is only in very exceptional instances that patients are isolated with negative findings.

DIPHTHERIA.

MONTHS.	DIAGNOSIS.		RELEASE.		TOTAL Examinations.
	Positive.	Negative.	Positive.	Negative.	
January, ...	44	112	22	90	268
February, ...	15	81	2	61	159
March, ...	12	79	3	29	123
April, ...	18	89	3	38	148
May, ...	10	55	11	32	108
June, ...	14	42	2	18	76
July, ...	14	48	10	46	118
August, ...	6	43	..	30	79
September, ...	10	49	6	23	88
October, ...	9	29	4	30	72
November, ...	16	22	5	18	61
December, ...	17	33	1	25	76
Totals, ...	185	682	69	440	1,376

21.3% positives.

TYPHOID FEVER.

	Jan.	Féb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Positive	0	0	0	0	0	2	2	0	6	0	0	0	10
Negative	2	0	5	0	1	2	2	0	7	3	1	1	24
Doubtful	0	0	1	0	0	3	1	0	2	0	0	0	7
Totals	2	0	6	0	1	7	5	0	15	3	1	1	41

24.6% positives.

TUBERCULOSIS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Positive	7	14	13	12	11	13	10	16	18	9	1	9	133
Not found	24	27	46	47	33	27	18	26	24	25	14	22	333
Totals	31	41	59	59	44	40	28	42	42	34	15	31	466

28.8% positives.

INFANT MORTALITY.

407 deaths occurred in children under one year of age during the year, an increase of 82 over 1917. Of this number 33 were non-resident deaths and are excluded in estimating the mortality rate as they are not included in the births. The available birth returns are 4,070, which gives an infant mortality rate of 91.86 (87.76) per 1,000 births. 176 (159) stillbirths occurred. A reference to the infant mortality table shows that 142 babies died during the first week, 87 being premature births. 65 deaths from intestinal diseases due chiefly to improper feeding occurred during the year and 77 deaths the previous year. Of the 65 deaths 43 were bottle fed babies, 16 breast fed, and 6 mixed feedings. The premature deaths and the stillbirths furnish all the argument necessary for the development of infant welfare work in a sustained and systematic manner under the direction of the Health Department and should not be delayed. An additional nurse will be required for this special work, which will be aided materially by the present familiarity of the situation possessed by the other nurses of the department. Sufficient information as to the results of home instruction in the proper preparation of milk after the abandonment of the milk station by the Baby Feeding Association is not at hand, but during the coming year such information will be forthcoming, and if considered desirable the distribution of modified milk should be resumed under the direction of the Department with such milk stations established as may be required, where clinics for babies and lectures to mothers can also be given.

INFANT MORTALITY—1918.

Months.	Total Under 1 year	AGES.											
		Under 1 day	1-2 days	2-3 days	3 days	4 days	1 week	1-2 weeks	2-3 weeks	3 weeks	1 month	1-2 months	2-3 months
January	22	4	1	2	2	1	1	1	1	1	1	1	1
February	43	7	5	2	9	4	3	1	..	2	6	1	3
March	30	5	2	1	1	4	1	1	4	3	4	..	4
April	41	10	2	6	..	1	1	..	4	3	5	5	5
May	32	7	..	3	8	3	1	1	2	1	4	4	3
June	20	5	2	..	2	..	1	1	2	..	3	4	..
July	38	4	3	..	2	..	1	2	4	5	5	3	9
August	34	2	..	1	2	..	1	3	2	6	9	5	3
September	38	10	..	1	4	2	3	1	4	4	3	2	4
October	43	8	1	..	3	2	1	4	6	1	6	7	4
November	34	8	1	1	2	..	3	1	3	..	5	5	5
December	32	4	2	2	1	6	2	1	2	..	7	5	..
Totals	407	74	19	18	31	23	19	17	34	26	61	43	42
Males	231	46	10	10	16	20	11	10	20	17	30	21	20
Females	176	28	9	8	15	3	8	7	14	9	31	22	22
Totals	407	74	19	18	31	23	19	17	34	26	61	43	42
Classification.													
Measles	5	..	..	..	..	..	..	..	..	..	..	2	3
Scarlet Fever	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping Cough	16	..	..	..	..	..	..	..	1	2	5	4	4
Diphtheria	2	..	..	..	..	..	..	..	..	..	..	1	1
Influenza	8	..	1	..	..	..	..	..	1	2	1	1	2
Tuberculosis (Pul.)	..	..	..	..	..	..	..	..	..	..	..	..	..
Syphilis	3	1	..	..	..	..	..	..	1	..	1	..	..
Anterior Poliomyelitis	..	..	..	..	..	..	..	..	..	..	..	..	..
Convulsions of Infants	4	..	..	1	..	..	..	..	..	..	1	1	1
Acute Bronchitis	10	..	..	..	..	1	3	..	1	..	3	1	1
Broncho-Pneumonia	46	..	..	..	..	..	2	2	7	3	14	9	9
Pneumonia	9	..	..	..	..	..	..	..	2	..	2	4	1
Diarrhoea and Enteritis	65	..	..	1	..	2	3	10	13	17	9	10	..
Congenital Malformations	31	7	..	2	10	3	3	1	1	..	3	1	..
Congenital Debility	29	1	3	4	5	4	..	4	3	4	1	..	..
Premature	112	57	11	9	10	12	5	5	1	1	1	..	..
Other Diseases	67	8	4	2	5	3	4	2	6	1	12	10	10
Totals	407	74	19	18	31	23	19	17	34	26	61	43	42

INFANT MORTALITY.

Maternal Nativity and Ward Residence.

Nativity of Mother.	WARDS.									
	1	2	3	4	5	6	7	8	Non-Resident.	Totals.
Massachusetts	11	24	11	10	6	6	12	18	14	112
Other States	12	17	14	15	4	4	11	14	7	98
Austria	1	7	..	1	..	..	1	20	3	33
Austria-Poland.....	..	..	..	..	..	..	..	..	1	1
Canada	9	1	5	1	2	3	1	7	2	31
England	..	..	..	..	1	1	3	..	1	6
France	..	1	2	..	..	..	..	..	..	3
Greece	..	6	1	..	..	..	..	1	..	8
Germany.....	..	1	..	..	1	..	..	..	..	2
Hungary	..	..	1	..	..	..	..	..	..	1
Ireland	2	5	..	3	2	..	..	1	1	14
Italy	5	1	23	6	..	7	..	2	1	45
Russia	4	26	..	1	..	1	1	1	3	37
Russia-Poland.....	..	1	..	..	..	..	..	..	..	1
Scotland	1	..	..	2	..	..	..	4	..	7
Sweden	3	1	..	..	..	..	..	..	..	4
Syria.....	..	4	..	..	..	..	..	..	..	4
Totals.....	48	95	57	39	16	22	29	68	33	407

INFANT MORTALITY RATE.

Years.	Births, excepting stillbirths.	Deaths under 1 year.	Rate deaths* per 1000 births
1911	2,582	250	96.82
1912	2,876	282	98.05
1913	2,964	295	99.52
1914	3,077	284	92.29
1915	3,268	276	84.45
1916	3,453	311	90.00
1917	3,703	325	87.76
1918	*4,070	407	100.00

*Estimated.

Excluding non-resident deaths, 1918, 91.86

MEDICAL SUPERVISION OF SCHOOLS AND CHILD WELFARE.

The interruption of the school year had its effect on the routine work of medical inspection and with the absence of seven medical inspectors and three school nurses on military service made a rearrangement of the work necessary so that no extension or enlargement of this division was possible during the year. The Department was extremely fortunate in securing temporary inspectors and nurses whose interest in the work has served to maintain the service at its usual standard. Upon the reopening of schools the combined watchfulness of principals, teachers, inspectors, and nurses for any symptoms of influenza in the children and their prompt exclusion from school did much to relieve the anxiety of parents, and the school attendance was in a short time in a very satisfactory condition. Medical supervision originally concerned itself with the examination of children for contagious diseases, and the long experience in this direction has given confidence in the opinion that children as a rule are better protected and less liable to contract these diseases when attending school, and the records of the Department show that a large percentage of cases of contagious diseases are not connected with school attendance.

GENERAL YEARLY INSPECTION OF SCHOOL CHILDREN.

1917-1918.

Number of pupils in rooms examined, ...	12,976
Number of pupils examined, ...	12,920
Number of pupils reported with no defects, ...	4,106
Number of pupils reported with nervous affection, ...	113
Cardiac diseases reported valvular, ...	100
Orthopedic defects reported, ...	181
Enlarged glands (tubercular), ...	76
Tuberculosis, ...	1
Defective teeth, ...	6,820
Enlarged tonsils, ...	2,894
Adenoids, ...	2,404

**LIST OF DISEASES REFERRED TO MEDICAL INSPECTORS OF
SCHOOLS FOR INSPECTION AND DIAGNOSIS TABULATED
FROM WEEKLY REPORTS FOR YEAR ENDING
DECEMBER 31, 1918.**

I.—INFECTIOUS DISEASES.	1917	1918
Diphtheria, ...	9	3
Scarlet Fever, ...	6	4
Measles, ...	333	90
Mumps, ...	82	184
Whooping Cough, ...	16	21
Chicken Pox, ...	90	34
Tuberculosis, ...	1	0
Influenza, ...	15	94
Other Diseases, ...	13	17
 II.—DISEASES OF ORAL AND RESPIRATORY TRACT.		
Acute Pharyngitis, ...	451	298
Acute Tonsilitis, ...	246	145
Chronic Hypertrophic Tonsils, ...	90	60
Acute Rhinitis, ...	134	235
Defective Nasal Breathing, ...	81	24
Adenoids, ...	33	32
Other Diseases, ...	66	62
 III.—DISEASES OF EYE AND EAR.		
Acute Otitis Media, ...	20	7
Chronic Otitis Media, ...	22	13
Other Diseases of Ear (defective hearing ex- cluded), ...	21	10
Blepharitis, ...	50	40
Acute Conjunctivitis, ...	123	78
Other Diseases of Eye (defective visions ex- cluded), ...	158	125
 IV.—DISEASES OF THE SKIN.		
Acne, ...	15	17
Boils, ...	56	45
Dermatitis, ...	222	84
Eczema, ...	140	72
Erythema, ...	32	30
Herpes, ...	216	106
Impetigo Contagiosa, ...	897	624
Pediculosis, ...	356	201
Scabies, ...	101	58
Tinea, ...	36	19
Other Affections, ...	292	194

V.—MISCELLANEOUS.

	1917	1918
Abscesses and Ulcers,.....	201	115
Contusions and Injuries,.....	921	494
Cardiac Diseases,.....	4	6
Fever,.....	52	86
Gastric and Intestinal,.....	88	45
Pulmonary Diseases,.....	11	31
Tubercular Lymph Nodes,.....	11	2
Other Diseases not classified,.....	939	906
Malnutrition,.....	11	11

SUMMARY.

Specific and Infectious Diseases,.....	575	447
Oral and Respiratory Diseases,.....	1,101	906
Diseases of the Ear,.....	63	30
Diseases of the Eye,.....	331	143
Diseases of the Skin,.....	2,363	1,450
Miscellaneous Diseases,.....	1,299	790
Unclassified,.....	939	906
No disease found,.....	1,429	1,060
Number of first examinations,.....	8,100	5,732
Number of re-examinations,.....	5,571	3,537
Total number of examinations,.....	13,671	9,269
Vaccinations,.....	2,851	718
Total number sent home,.....	787	587

SCHOOL NURSES.

The varied activities of school nurses represent the child welfare work of the Department at the present time and is recognized as a very important part of medical supervision of school children. The knowledge of living conditions and the home life of children which is obtained by the nurse is valuable in many directions and especially in affording assistance or care in many families through the various agencies and associations of the city to which they are referred. An idea of the familiarity of the nurses with the districts under their care may be obtained from the number of visits made to the home during the year. The report shows that 6,349 visits were made, indicating the confidential and friendly relations which are gradually established in the execution of the work. Children absent from school on account of illness are visited. Numerous cases of various contagious diseases are brought to the attention of the Department which are not under medical attendance and proper care and medical treatment secured in many other cases. During the month of October the school nurses devoted their time and services to the care of influenza patients. Upon the reopening of the schools the services of the nurses were given to

the investigation of all children absent on account of illness and their personal acquaintance with the families throughout the city was of especial value in making the reopening of the public schools a safe procedure during the epidemic. The tabulation of the work performed indicates its variety and shows the results obtained. In order to carry on the work of medical supervision to the best advantage an additional nurse is needed for the coming year.

**REPORT OF SCHOOL NURSES FOR THE YEAR
ENDING DECEMBER 31, 1918.**

	No.	Cured.	Under Observation.	Refused Treatment.	Other Care, Moved.
Skin diseases,.....	893	843	50		
Parasitic affections,.....	784	619	162		3
Chronic enlarged tonsils,....	1,887	263	1,424	17	183
Adenoids,.....	1,729	262	1,267	15	185
Defective vision,.....	418	130	245	1	42
Other eye affections,.....	290	269	21		
Defective hearing,.....	28	15	12		1
Tuberculous disease,.....	4		4		
Heart disease,.....	27	20	7		
Orthopedic,.....	2		2		
Defective teeth, etc.,.....	2,198	184	1,879	14	121
Miscellaneous,.....	2,170	2,033	132	1	4
Prenatal,.....	27		27		
Totals,.....	10,457	4,638	5,232	48	539

New cases visited,.....	2,938
Total visits, new and old,.....	6,349
Total treatments at homes,.....	606
Total treatments at school,.....	6,926
Inspections (school),.....	12,510
First aid and dressings (school),.....	4,018
Visits to M. D., Hospital, etc.,.....	106
Reported German Measles,.....	17
Chicken Pox,.....	40
Mumps,.....	108
Diphtheria,.....	16
Whooping Cough,.....	92
Scarlet Fever,.....	13
Influenza,.....	74
Poliomyelitis,.....	1
Measles,.....	86

HOME HELPERS' LEAGUES.

The different leagues resumed their meetings during the summer vacation of schools and the interest in the work was well sustained by the nurses who have charge of the weekly meetings. Many members of previous years attend the talks and demonstrations, which is good evidence of the interest taken in the subjects especially dwelt upon at the meetings. The table shows the practical results of the operation of the leagues, which is very encouraging to all those interested in child welfare work.

Talks and demonstrations at meetings, ...	74
Number of home demonstrations, ...	94
Cases of sick babies reported by members, ...	22
Visits made of cases reported by members, ...	45
Poor sanitary conditions reported by members, ...	20
Whooping cough cases reported, ...	20
Measles cases reported, ...	1
Referred to associated charities, ...	12
Referred to probation officer, ...	1

DENTAL DISPENSARY.

Definite work in oral hygiene in the public schools began with the opening of the first dental dispensary in the Howard Street School. Children attending the William Street and Acushnet Avenue schools are also treated at the dispensary as well as emergency work from any school in the city. The clinic is open daily from 9 A.M. to 12 M. during school sessions, and children whose parents are unable to employ a dentist are given the first opportunity for treatment. No child receives treatment without a written permit from the parents and no child affected with pediculosis, scabies, or impetigo is received at the clinic. The clinic is conducted with every attention paid to cleanliness, asepsis, and the prevention of infection, and is completely equipped for any dental work. An effort was made to continue the clinic during the summer vacation, but it was impossible to secure the attendance of the children and the same trouble was experienced on Saturdays. The closing of schools on account of the epidemic also interrupted the work of the dispensary. Good progress has been made, however, and the first and second grades in three schools have been taken care of, and the work on the third grade children well under way. The work includes cleanings, extractions, and filling if necessary of temporary teeth. The first permanent molars receive especial attention, but extensive work upon permanent teeth of children in the higher grades will not be undertaken at the present time. Records

are made of all work performed and individual charts showing conditions of teeth are preserved. Children are sent to the clinic from the different schoolrooms under such arrangement with the principal as causes the minimum interference with the school work and yet affords ample material for the operation of the clinic. Parents are notified when the teeth are put in good condition with instructions to return for examination in six months. Each child is provided with toothbrush and tooth powder. As the work progresses and children advance to the higher grades all children in the public schools will, in a few years where dental clinics are held, have received attention under the present system. The work should be extended to other schools as rapidly as possible. Hooker School should be provided with a dispensary during the coming year and would be able to care for the different schools in that section of the city.

SUMMARY OF WORK PERFORMED AT DENTAL DISPENSARY.

(In operation 60 days.)

Total number cases examined and treated,.....	230
Number return visits,.....	184
Total visits for treatment,.....	414
Number discharged in good condition,.....	224
Number dropped,.....	9
Number extractions teeth (temporary),.....	736
Number extractions teeth (permanent),.....	36
Number cleanings (cases),.....	226
Number treatments,.....	67
Number fillings (temporary),.....	28
Number fillings (permanent),.....	67
Abscesses and other operations,.....	25
Gas or local anæsthetics,.....	260
Number visits at homes (assistant),.....	280
Number talks and demonstrations,.....	78
Number toothbrushes distributed,.....	130
Number bottles tooth powder,.....	180

FOOD INSPECTION.

MILK.

The milk supply of the city is obtained from so many different sources and so liable to contamination in its transportation, and subsequent handling before delivery to the consumer, that a strict adherence to the rules and regulations concerning the production and distribution of milk is necessary. Pure milk can be produced without an expensive equipment, but not without strict cleanliness in all the methods used. The frequent

inspection of dairies is therefore essential in securing definite information as to the conditions under which milk is produced and affords opportunity for obtaining desired improvements.

The pasteurization of market milk has simplified the process of delivering sweet, pure milk to the consumer, and when properly carried out is the best safeguard against all contamination or transmission of disease. At the present time nearly all milk sold in the city is pasteurized and the methods used comply with statute requirements.

The clean milking contest conducted by the State Board of Agriculture for a number of years was continued this year for women, girls, and boys who live or work upon farms which keep three or more cows. 17 prizes amounting to \$100.00 were received by contestants who supply milk to this city, and being the district having the largest number of prize winners carried with it a prize of \$25.00 to the milk inspector of the department who was chiefly instrumental in making the contest a success.

It has been a difficult matter to maintain the milk solids at the required standards. The fats, however, were maintained without much trouble. The consumption of milk has not increased during the year owing to the increase in price, but there has been a large amount of milk sold by stores, and the competition in that direction has lowered the prices two to three cents per quart from prices charged when delivered. 21 (25) dairies have discontinued business during the year. 4 (8) small routes have been taken over by large dealers, indicating the concentrating of the business which is going on. 76 (85) dairies discontinued sending milk to Springfield. 573 (255) dairies were inspected once during the year, 447 (285) twice, and 131 (93) three times. Dealers experienced some trouble for a short time in the summer with sour milk, which had not been properly cooled by the producer. Ropy milk caused a number of complaints, but the offending dairy was soon located and the cause removed.

Frequent analyses of ice cream show that the per cent of butter fat was well above the standard required.

Vinegar at the present time is practically sold in quart bottles and was found to be of required standard in acids and solids as a rule. The sale of several lots was prohibited which was below the required standard.

The work performed by the inspector of milk and the milk chemist and bacteriologist is summarized in the tables and indicates the careful supervision which is exercised over the milk supply of the city.

SUMMARY OF WORK PERFORMED IN THE DAIRY DIVISION.

	1917	1918
Estimated number of quarts sold daily in Springfield, ...	66,500	66,700
Estimated number of quarts sold daily in city from near-by dairies, ...	60,000	60,200
• Estimated number of quarts sold daily in city from New York and Vermont dairies, ...	6,500	6,300
Estimated number of quarts of cream sold in city daily, ...	5,000	5,000
Number of licenses issued for the sale of milk, ...	832	670
Number of licenses and registrations for sale of oleomargarine, ...	190	237
Number of near-by dairies sending milk to Springfield, . . .	821	704
Number of New York and Vermont dairies sending milk to Springfield, ...	247	247
Number of changes made by dealers in source of supply, . . .	444	329
Number of dairy milk houses built, ...	40	60
Number of dairy barns built, ...	6	5
Number of barns remodeled, ...	11	20
Number of inspections made of dairies, ...	1,104	1,151
Number of inspections made of stores and restaurants, . . .	1,289	1,290
Number of inspections made of milk wagons and rooms, . . .	850	570
Number of inspections (total), ...	3,233	3,011
Number of samples collected at milk plants, ...	1,241	1,312
Number of samples collected at trains, ...	61	90
Number of samples of milk collected at stores, ...	195	100
Number of samples of milk collected from wagons, ...	359	300
Number of samples of milk brought to laboratory, ...	740	516
Number above standard, ...	2,145	1,900
Number below standard, ...	456	418
Number below in solids and fats, ...	207	314
Number below in solids, ...	391	418
Number below in fats, ...	207	314
Number of samples analyzed (total), ...	2,601	2,318
Number of samples of skimmed milk analyzed, ...	15	10
Number of samples of buttermilk analyzed, ...	6	2
Number of samples of prepared milk and cream analyzed, . .	42	60
Number of samples plated for bacterial examination, ...	400	243
Number of refractions for the presence of water, ...	37	50
Number of samples containing added water, ...	15	25
Number of microscopic examinations, ...	105	150
Number of prosecutions, ...		3
Number of samples having bad flavor, ...	26	40
Number of slimy milk and cream samples, ...	2	10
Number of bitter milk samples received and examined, . . .	11	9
Number of samples showing skimming, ...	33	41
Number of protein examinations, ...	33	40
Number of oleomargarine samples examined, ...	5	12
Number of butter samples examined, ...	10	15
Number of sediment tests for dirt, ...	340	300
Number of cows tested for producers, ...	122	132
Number of cards and notices, ...	1,655	1,250
Number of samples of vinegar tested, ...	126	69
Number below in solids, ...	22	17
Number below in acid, ...	27	6

SUMMARY OF MILK BACTERIA COUNTS.

	1917		1918	
Number of samples with 10,000 and under,...	103	25.7%	84	34.5%
Number of samples between 10,000 and 20,000,.....	29	7.2%	29	11.9%
Number of samples between 20,000 and 50,000,.....	55	13.7%	47	19.3%
Number of samples between 50,000 and 100,000,.....	50	12.5%	35	14.4%
Number of samples between 100,000 and 200,000,.....	56	14.0%	17	7.0%
Number of samples between 200,000 and 500,000,.....	41	10.2%	12	4.9%
Number of samples with not more than 10,000,.....	103	25.7%	84	34.5%
Number of samples with not more than 100,000,.....	237	59.2%	195	80.2%
Number of samples with not more than 500,000,.....	334	83.5%	224	90.9%

ICE CREAM ANALYSIS.

Number of samples taken,.....	150
Number of wholesale dealers,.....	10
Number of dealers who purchase ice cream,.....	40
Number of dealers who manufacture ice cream,.....	44
Number of samples above standard,.....	138
Number of samples below standard,.....	12
Highest per cent of fat,.....	21.40%
Lowest per cent of fat,.....	4.75%
Average per cent of fat,.....	10.90%

MEAT AND PROVISIONS.

The inspector of meats and provisions made the following inspections of markets during the year:—

Cold Storage Houses,.....	40
Wholesale Meat Houses,.....	178
Wholesale Fruit Houses,.....	182
Retail Meat Markets,.....	1,956
Retail Groceries,.....	2,270
Retail Fish Markets,.....	926
Retail Fruit,.....	1,640
Meat Carts,.....	78
Totals,.....	7,270

The following amounts of meats, poultry, vegetables, and fruit in pounds was found unfit for use and condemned:—

<i>Meats.</i>		<i>Poultry.</i>	
Beef,.....	55	Chicken,.....	45
Lamb,.....	53	Turkeys,.....	461
Veal,.....	425	<i>Vegetables.</i>	
Liver,.....	6	Lettuce,.....	6 boxes
Kidneys,.....	2	Cucumbers,.....	1 box
Ham,.....	4	Potatoes,.....	80 bu.
Hamburg,.....	4	Beans,.....	4 bu.
Sausage,.....	4	Onions,.....	4 boxes
Frankforts,.....	7	Eggplant,.....	1 bbl.
Bologna,.....	2	Cabbage,.....	1 bbl.
		Tomatoes,.....	1 bas.
<i>Fruit.</i>			
Berries,.....	5	crates	
Peaches,.....	2½	baskets	
Pears,.....	½	basket	
Apples,.....	3	baskets	

During the year there were 18 complaints from consumers. In 6 cases there was just cause for complaint and after investigation the following food products were condemned: 2,400 pounds of cheese were spoiled in shipping; 58 pounds oleomargarine; 160 pounds pork loins; 153 pounds veal; 4 cans sardines, and 2 tons corn meal.

SLAUGHTERING INSPECTION.

The carcasses of 196 hogs, 18 veal, and three beef were examined and passed. One beef carcass was condemned for generalized tuberculosis. Two veal killed in Vermont were condemned on arrival here and carcasses rendered. Three hog heads were condemned for tuberculosis and eleven hog livers for hepatic cysts.

VITAL STATISTICS.

The tables distributed throughout the report are compiled from the records of the work of the Department and with the classification of diseases causing death constitute the vital statistics of the city. A careful study of these statistics is necessary in order to arrive at any fair estimate of the value of the different phases of Public Health work. The cause of variation in a gradual declining curve is readily explained and the comparative tables for a five-year period are especially valuable. Vital statistics

also indicate the direction in which health activities should be undertaken and at the same time furnish definite answers to many questions and criticisms.

The population has been variously estimated from 111,983 to 131,246. 124,409 has been taken as the average of the estimates made for the year. The gross mortality rate is 20.53 (15.93) per 1,000 population. There were 350 (284) non-resident deaths, which makes the actual mortality rate 17.72 (13.50) per 1,000 population. The increased rate occurred during the last three months of the year. If the average death rate for the first nine months had continued through the year it would have resulted in a decrease from the mortality in 1917.

39 (56) deaths were caused by accidents of various kinds: Motor cars 23 (22), trolley cars 1 (5), railroads 9 (15), teams 1 (2), elevators 2 (2), accidental inhalation of illuminating gas 3 (10). 374 (327) resident deaths occurred in children under one year of age. Deaths from accidents are in no way connected with deaths from disease and might very properly be eliminated in computing the mortality rates when this rate is used as an indication of the health of the community. The gross mortality rates in a city which is a hospital center and in the course of a year receives many patients from the surrounding towns include deaths from all such patients, which adds to the gross mortality rates. Not including deaths from the epidemic, heart diseases still retain the first place in the diseases causing death during the year, closely followed by Bright's disease, pneumonia, tuberculosis, cancer, and apoplexy in the order named.

PREMATURE BIRTHS, 112.

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BIRTHS, DEATHS, STILLBIRTHS AND MARRIAGES WITH POPULATION AND RATES PER 1,000 OF POPULATION.

Years	Population	Births, Stillbirths excluded	Deaths, Stillbirths excluded	Stillbirths	Marriages	Birth Rate	Death Rate	Marriage Rate
1900	*62,059	1,562	1,143	49	640	25.16	18.41	10.31
1901	64,412	1,527	933	49	642	23.73	14.48	9.96
1902	66,854	1,681	1,025	49	701	25.14	15.33	10.48
1903	69,389	1,758	1,100	53	726	25.33	15.85	10.46
1904	72,020	1,682	1,149	72	686	23.35	15.95	9.52
1905	*73,540	1,879	1,120	71	800	25.55	15.22	10.87
1906	76,255	1,863	1,136	69	934	24.43	14.89	12.24
1907	78,707	2,061	1,302	63	1,156	26.18	16.54	14.68
1908	81,425	2,219	1,334	82	943	27.25	15.03	11.58
1909	84,237	2,371	1,309	65	1,064	28.14	15.53	12.63
1910	*88,928	2,562	1,481	94	1,170	28.81	16.65	13.15
1911	92,048	2,532	1,412	104	1,274	28.05	15.33	13.84
1912	96,973	2,876	1,445	95	1,147	29.65	14.90	11.82
1913	100,877	2,964	1,464	100	1,260	29.38	14.51	12.49
1914	104,949	3,077	1,521	146	1,226	30.71	14.49	11.68
1915	*102,971	3,268	1,511	115	1,185	31.73	14.67	11.50
1916	106,365	3,453	1,741	131	1,554	32.46	16.36	14.61
1917	117,058	3,703	1,865	159	1,680	31.63	15.93	14.35
1918	124,409	**4,070	2,555	176	1,300	32.71	20.53	10.44

*Official.

**Estimated

TABLE SHOWING MORTALITY IN PERCENTAGES PER 1,000 INHABITANTS FOR ALL DISEASES AT DIFFERENT AGE PERIODS, BY YEARS.

Age Period	YEARS						
	1913	1914	1915	1916	1917	Average 1913-1917 inc.	1918
Under 1	2.924	2.706	2.680	2.922	2.775	2.801	3.268
1	.386	.428	.582	.638	.538	.514	.706
2	.198	.161	.232	.187	.204	.196	.369
3	.118	.066	.145	.216	.145	.399	.216
4	.137	.057	.058	.131	.128	.102	.200
5-9	.287	.238	.194	.338	.649	.341	.465
10-14	.168	.238	.233	.225	.316	.236	.216
15-19	.327	.285	.301	.300	.239	.290	.536
20-29	.921	1.019	.990	1.061	1.246	1.047	2.890
30-39	1.209	1.352	1.048	1.569	1.332	1.302	2.947
40-49	1.397	1.448	1.485	1.475	1.665	1.494	1.702
50-59	1.486	1.666	1.776	1.616	1.725	1.653	1.846
60-69	1.863	2.	1.796	2.461	1.964	2.016	1.951
70-79	1.942	1.8	1.980	2.067	1.802	1.918	1.943
Over 80	1.130	1.019	1.174	1.146	1.195	1.132	1.204

EXPENDITURES.

The total expenditures of the Department for the year ending November 30th were \$78,379.23. Of this amount the hospital account was \$35,666.12 and for other aid for tuberculosis and sanatoria, and in other cities, \$4,983.91, making \$40,350.03 for the care of tuberculosis and contagious diseases as required by the statute. \$37,629.20, the balance of the expenditures, represents the amount devoted to all other public health work. The entire expenditures represent a per capita tax of 61.6 cents, which, comparatively speaking, is a very small percentage of the entire budget of the city, and 31 cents per capita representing public health work outside of hospitals and tuberculosis is far within the limit, and a gradual increase should be expected and allowed for any development of public health work.

Respectfully submitted,

THOMAS F. REARDEN, M.D.

EDGAR H. GUILD, M.D.

PHILIP V. ERARD,

Board of Health.

BUILDING DEPARTMENT.

NINTH ANNUAL REPORT

OF THE

BUILDING DEPARTMENT

SPRINGFIELD, MASS., December 30, 1918.

To the Honorable City Council of the City of Springfield, Mass.

GENTLEMEN:—Owing to the cost and permanent character of buildings they commonly are erected only after careful consideration of all the items and elements entering into or affecting their construction. They are an index or barometer of the time in which they are built, and mutely record its influence.

In common with most other cities, Springfield has erected no building of any magnitude during the past year. Operations have been confined in a small way to unimportant new buildings, and additions and alterations to existing buildings.

Much second-hand material has been utilized, and the tendency is toward the elimination of everything not actually necessary, and to evade the requirements of the law—particularly when compliance adds to the cost of the work.

The needs of war enterprises have been so pressing that labor, steel, lumber, and all building materials have been diverted from their ordinary uses and applied in every conceivable way in the effort to win the war. Except on land owned by the United States Government, practically no so-called war buildings have been erected here, so that during the reconstruction period there will be few buildings or institutions to be thrown into the scrap heap.

If building projects have languished somewhat during the year, there is at least some satisfaction in knowing that there have been no overwhelming failures or losses.

It is no thought of mine to go into details, but in the near past, some of the modern methods of promoting and carrying on building operations have been extremely disconcerting to all those who understand, and are at all familiar with the manner of doing the thing "in the elder days of

art." Such methods if continued will do more to put the quietus on the local building industry than the great war even.

Financiers, architects, builders, material men, real estate men, and all others interested should get together and co-operate in devising and establishing a new order of things. Speculative building work should only be attempted in answer to a real demand. If it is done otherwise, it should only be done after a long look ahead, and a careful study of the thousand and one things necessary to bring the work to full completion. The start should be made only after a plan has been made, and a working schedule—of requirements, materials, time, costs, and payments,—has been carefully prepared and established. The schedule should be lived up to each day, else in the midst of our scheme we shall find ourselves enmeshed in a mass of details, defects, and delusions. Even the coarse art of building is an important and serious business. It should only be carried on by those who have had careful training and successful experience.

BUILDING OPERATIONS BY THE CITY OF SPRINGFIELD.

The City of Springfield itself did a very small amount of building—less than twenty thousand dollars' (\$20,000) worth. Practically all of this was spent for the dormitory at the rear of the Technical High School.

SAFE FLOOR LOADS.

This Department has continued the work of making surveys of existing buildings to determine their condition and safe strength. Nothing has been taken for granted. Where there was any doubt, casings have been removed, floors taken up, fireproofing removed from columns, and in one instance excavations were made to examine the column footings to determine their size and construction. Changes have been ordered and made wherever it seemed advisable. One hundred one (101) notices have been posted giving the safe floor loads in such buildings as have been examined.

DANGEROUS BUILDINGS.

During the year four (4) buildings became dangerous. One (1) of these has been demolished, and the others strengthened and repaired and made safe. Part of one (1) building collapsed—supposed to have been due to overloading. While the country was at war large stores of merchandise were carried and stored in various buildings. Many overloaded buildings

were discovered. In some cases the loads were ordered to be decreased, and in others the buildings were strengthened by reinforcing the floor beams, or by installing additional steel or wood supports under the overloaded or weak places.

HOTELS AND LODGING HOUSES.

As required by Chapter 655, Acts of 1913, this Department has inspected twenty-two (22) hotels and forty-one (41) lodging houses, and reported their condition to the State District Police. These buildings contained a total of three thousand two hundred fifty-three (3,253) rentable rooms.

Ten (10) special inspections of lodging houses have been made.

ELEVATORS.

The elevators throughout the city are generally in better condition than ever before.

Four hundred thirty-eight (438) certificates have been issued.

Two hundred twenty-eight (228) operators' licenses have been granted. Eighty-seven (87) of these were issued to women.

Six hundred eighty-two (682) elevators are now in use in this city. During the year seven (7) old elevators have been removed, and twenty-three (23) new ones have been set in place. There was one fatality in an elevator shaftway. There was no witness to the accident.

FIRE ESCAPES.

One hundred twenty-nine (129) existing fire escapes have been inspected. The attention of the owners has been called to the condition of fifteen (15) of these, and most of them have received the necessary attention.

SIGNS.

Permits for fifty-two (52) projecting signs have been granted by the City Council, and an "Agreement" for each has been filed, as required, with the Building Commissioner.

Permits for forty (40) signs have been issued by the Building Department. Of these signs, twenty-seven (27) were placed flat against the buildings, two (2) were projecting, ten (10) were electrically lighted, and one (1) was a roof sign.

ELECTRICAL INSPECTIONS.

Five thousand three hundred ninety-one (5,391) inspections of electrical apparatus have been made. One thousand eight hundred thirty-six (1,836) permits have been issued to one hundred twenty (120) different contractors.

The United Electric Light Company (and others) have received permits for seven hundred fifty-five (755) service meters.

THE TABLES.

The following tables show the complete building record for the year 1918:—

BUILDING PERMITS GRANTED
From Jan. 1 to Dec. 31, 1918.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Bakery and Stable, ...								1				1	2
Bank, ...				1								1	1
Chemical Building, ...				2								1	1
Churches, ...									2				2
Dormitories, ...													2
Factory, ...						1							1
Garages, ...	1	7	22	32	34	21	21	17	26	12	14	4	211
Hall, ...											1		1
Houses—two family, ...				3	4	6	6	1	1		1	1	16
Houses—one family, ...	2	1		9	5	6	4	2	3	2	1	2	37
Lodging House, ...				1									1
Offices, ...				2								1	3
Stables, ...			1	2				3	1			1	8
Storage Buildings, ...			9	7	5	4	12	3	6	2	4	3	55
Stores, ...			2	3		1	1	1				1	9
Tenements, ...				1									2
Warehouses, ...								1				1	2
Miscellaneous, ...			1	2	1	1	1	2	1	2		1	12
Additions and Alterations, ...	27	17	52	58	52	45	38	34	31	31	21	15	421
Totals, ...	30	25	87	123	101	79	84	65	71	49	41	32	787

ESTIMATED COST OF NEW BUILDINGS—From Jan. 1 to Dec. 31, 1918.

WARD	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	\$200	\$40	\$3,550	\$87,375	\$9,060	\$2,000	\$7,800	\$5,150	\$2,200		\$800	\$1,725	\$119,900
2			1,250	21,700	8,825	1,500	350	3,700	3,540	\$510	50	35,000	76,425
3			17,000	70,960		2,200	3,400		18,100		11,050	5,700	128,410
4		200	100	3,375	2,650		2,500	375	3,850		550		10,100
5			1,425	76,000	900	1,700	2,000	1,200	31,050	300		4,200	118,775
6			1,225	67,950	1,800	9,925	1,500	3,600	1,165		1,500		88,665
7	4,200	3,525	1,375	31,700	8,250	7,885	16,875	5,800	1,925	500	300	1,925	84,280
8	3,000	200	9,200	12,310	17,560	9,825	22,725	9,510	30,815	4,090	3,715	6,600	129,550
Totals	\$7,400	\$3,965	\$35,125	\$371,370	\$49,045	\$35,035	\$57,150	\$29,335	\$89,145	\$5,400	\$17,965	\$55,150	\$756,085

Note:—In addition to the above, "Verbal Permits" have been granted (and recorded) for 109 building operations, costing less than \$25.00 each and aggregating \$2,142.00.

COMPARATIVE STATISTICS.

Table showing the comparative number and cost of building operations since the creation of the Building Department.

	New Buildings	Cost	Alterations and Additions	Cost	Total Costs
1910*	194	\$1,410,892	89	\$83,043	\$1,493,935
1911	704	4,230,140	505	665,323	4,895,463
1912	870	5,507,434	619	785,060	6,292,494
1913	763	4,259,378	566	788,087	5,047,465
1914	851	4,020,873	641	1,036,369	5,056,242
1915	936	5,529,357	559	532,824	6,062,181
1916	1,122	6,258,980	573	842,052	7,101,032
1917	743	2,834,457	451	945,155	3,779,612
1918	366	756,085	421	842,338	1,598,423

*For three months only (Oct., Nov., Dec.).

ESTIMATED COST OF ADDITIONS AND ALTERATIONS

From Jan. 1 to Dec. 31, 1918.

WARD	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	\$5,500	\$1,665	\$9,275	\$2,700	\$1,000	\$1,875	\$550	\$7,300	\$2,935	\$2,900	\$830	\$2,045	\$38,575
2	1,185	250	3,300	5,900	3,175	2,800	475	26,550	880	4,500	3,800	6,125	54,440
3	19,355	5,300	165,929	57,175	111,450	80,950	48,125	28,915	880	4,500	58,250	1,650	582,479
4	275	200	4,185	510	2,790	1,325	4,960	875	350	14,604	500	1,650	30,574
5	950	100	475	2,205	200	3,075	6,050	775	33,350	1,795	100	600	49,675
6	125		1,065	415	2,850	2,150	5,300	3,000	250	600	200	220	16,175
7		550	400	100	1,000	275	625	135	325	200	250	60	3,920
8	3,600	745	1,925	6,900	1,250	5,415	800	2,150	6,765	36,000	950		66,500
Totals	\$30,990	\$8,810	\$186,554	\$75,905	\$123,715	\$97,865	\$66,885	\$69,700	\$45,735	\$60,599	\$64,890	\$10,700	\$842,338

BUILDING OPERATIONS—BY WARDS

	WARDS								Totals
	1	2	3	4	5	6	7	8	
Bakery and Stable,.....	1					1			2
Bank,.....			1						1
Chemical Building,.....			1						1
Churches,.....					1		1		2
Dormitories,.....			1					1	2
Factory,.....						1			1
Garages,.....	16	9	3	16	27	22	46	72	211
Hall,.....			1						1
Houses—two-family,.....	3						3	10	16
Houses—one-family,.....	2			2			15	18	37
Lodging House,.....	1								1
Offices,.....		1	1		1				3
Stables,.....	2	1					1	4	8
Storage Buildings,.....	4	4	7	1	2	4	3	30	55
Stores,.....	1		2	1	1		1	3	9
Tenements,.....						1	1		2
Warehouses,.....					1			1	2
Miscellaneous,.....		2				1	1	8	12
Additions and Alterations,...	51	51	123	42	44	32	20	58	421
Totals,.....	81	68	140	62	77	62	92	205	787

CLASSIFICATION OF BUILDINGS

	NUMBER		Cost	
	Brick	Wood	Brick	Wood
Bakery and Stable,.....		2		\$4,500
Bank,.....	1		\$70,000	
Chemical Building,.....	1		5,700	
Churches,.....	1	1	75,000	2,500
Dormitories,.....	1	1	18,000	14,000
Factory,.....	1		9,000	
Garages,.....	80	131	79,865	28,835
Hall,.....	1		3,500	
Houses—two family,.....		16		62,200
Houses—one family,.....	1	36	800	96,900
Lodging House,.....	1		85,000	
Offices,.....	2	1	15,300	200
Stables,.....	2	6	4,800	3,160
Storage Buildings,.....	7	48	17,700	15,560
Stores,.....	4	5	53,200	1,750
Tenements,.....	1	1	65,000	6,000
Warehouses,.....		2		5,500
Miscellaneous,.....	5	7	5,400	6,715
Additions and Alterations,....	181	240	694,894	147,344
Totals,.....	290	497	\$1,203,259	\$395,16 4

INSPECTIONS BY THE BUILDING INSPECTORS

Table showing number of inspections each month, and for what purpose.

	New Buildings	Additions Alterations	Specials	Fires	Fire Escapes	Totals
January,.....	315	117	42	7		481
February,.....	240	92	13	5		350
March,.....	227	100	41	4		372
April,.....	147	104	106		42	399
May,.....	306	131	32		18	487
June,.....	204	139	89	2	53	487
July,.....	229	173	45			447
August,.....	226	124	41			391
September,.....	168	112	39		16	335
October,.....	126	85	32			243
November,.....	130	52	33	2		217
December,.....	150	180	95			425
Totals,.....	2,468	1,409	608	20	129	4,834

VIOLATIONS REPORTED AND CORRECTED.

Building without a permit,.....	53
Defective construction,.....	1
Dangerous buildings,.....	4
Dangerous chimney,.....	1
Flue lining omitted,.....	3
Woodwork placed against chimney,.....	10
Omission of fire stops,.....	4
Lathing without notification or permission,.....	2
Heater installed without permit,.....	29
Omission of shields over heaters and smoke pipes,.....	17
Woodwork too near heater and smoke pipe,.....	6
Fire doors omitted,.....	5
Omission of ladder to roof scuttle,.....	2
Miscellaneous,.....	89
Totals,.....	226

NUMBER OF STEAM BOILERS INSTALLED

From Jan. 1 to Dec. 31, 1918.

	WARDS								Totals
	1	2	3	4	5	6	7	8	
January,.....	2	1					1	2	6
February,.....	1			2			1	1	4
March,.....							1	3	4
April,.....			2			2			4
May,.....					2		14	1	17
June,.....	1			2	2	1	1	1	8
July,.....			1			2	1	1	5
August,.....			3			4	4		11
September,.....	6	3				4	1	4	18
October,.....		2	1		1		2	3	9
November,.....			2	1			2		5
December,.....	1		1	1			1	1	5
Totals,.....	11	6	10	6	5	13	28	17	96

NUMBER OF HEATING FURNACES INSTALLED

From Jan. 1 to Dec. 31, 1918.

	WARDS								Totals
	1	2	3	4	5	6	7	8	
January,.....							4	4	8
February,.....						1		6	7
March,.....									
April,.....								1	1
May,.....					1			2	3
June,.....					2				2
July,.....							5	5	11
August,.....			1						
September,.....									
October,.....									
November,.....									
December,.....									
Totals,.....			1		3	1	9	18	32

NOTE—Permits have been granted for the installation of five bake ovens.

ELEVATOR INSPECTIONS

From Jan. 1 to Dec. 31, 1918.

	Hydraulic Passenger	Hydraulic Freight	Electric Passenger	Electric Freight	Hand Power	Dumb Waiter	Belt Elevators	Special Inspections	Totals	Written Reports	Defective Elevators
January,....	10	17	10	2		9	11	11	70	59	21
February,...	3	11	12	10	1	12	5	13	67	54	16
March,....	6	38		6	1	5	4	15	75	60	29
April,....	2	26	8	7	6	5	6	16	76	60	20
May,....	4	14	6	17	4	4	10	14	73	59	22
June,....	3	17	3	14	2	3	16	22	80	58	24
July,....	5	16	6	12	1	6	14	20	80	60	28
August,....	2	10	9	14	3	23	5	18	84	66	15
September,...		15		18		4	10	13	60	47	13
October,....	17	11	7	2	1	10		15	63	48	17
November,...	13	14	8	7		9	1	14	63	52	14
December,...	5	20	6	2	1	2	4	4	44	40	15
Totals,...	70	209	75	111	20	92	86	175	838	663	234

NOTE:—During the year seven elevators have been removed and twenty new elevators installed; six hundred and eighty-two are now in use, and twenty-three are now being installed. Four hundred and thirty-eight certificates have been issued.

ELECTRICAL INSPECTIONS

Table showing number of inspections made from Jan. 1 to Dec. 31, 1918.

INSPECTIONS	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations,.....	126	116	141	182	201	157	162	128	108	170	137	87	1,715
Old installations,.....	43	20	32	15	18	29	22	5	35	22	25	24	290
Additions and alterations,.....	209	213	200	202	249	226	193	165	198	231	222	199	2,507
Temporary work,.....	4	3	7	8	7	8	16	7	2	94	7	7	76
Fixtures,.....	68	72	79	66	99	53	52	36	60	3	61	42	782
New electric signs,.....	3	1	3	3	3	3		2					21
Totals,.....	453	425	462	476	577	476	445	343	403	520	452	359	5,391

Table showing number of defective installations discovered and corrected during the year from Jan. 1 to Dec. 31, 1918.

DEFECTIVE INSTALLATIONS	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations,.....	32	14	33	38	39	26	46	37	29	57	46	23	420
Old installations,.....	23	15	26	11	18	21	13	5	25	15	13	14	199
Additions and alterations,.....	47	36	32	20	47	39	38	33	43	47	34	56	472
Temporary work,.....				1	1	1	2	6	10	30	16	11	111
Fixtures,.....	24	15	19	9	16	19	9	6	6	3	16	11	184
New electric signs,.....			1	1		2							4
Totals,.....	126	80	111	80	120	108	108	87	107	149	109	105	1,290

PLUMBING

Table showing number of Permits, Inspections, and Violations—1918.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits for work in new buildings, .	3	3	11	3	9	15	12	3	6	7	1	4	77
Permits for work in old buildings, .	13	16	36	60	53	37	42	39	28	27	23	21	395
Regular inspections, .	178	98	131	219	209	209	180	205	195	222	90	92	2,028
Special inspections, .	207	140	514	291	136	147	115	116	44	63	80	90	1,943
Violations, .	4	3		2		1	1	2	2		1	2	18

Table showing number of Fixtures installed during 1918.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Water closets, .	35	12	75	58	58	99	90	31	33	38	29	26	584
Lavatories, .	20	16	55	69	37	114	89	35	32	22	17	24	530
Baths, .	9	9	22	29	18	117	60	23	21	14	7	7	336
Laundry trays, .	4	8	22	23	12	24	60	17	22	8	5	6	211
Sinks, .	12	8	30	34	42	43	63	23	21	27	23	11	337
Urinals, .	7		5	2	2		3	6		4		3	32
Totals, .	87	53	209	215	169	397	365	185	129	113	81	77	2,030

GAS FITTING

Table showing number of Permits, Inspections, and Violations—1918.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits—New Buildings, ...	6	6	10	3	4	8	11	3	2	4	1	2	60
Permits—Old Buildings, ...	11	6	15	14	23	18	17	17	7	10	12	4	154
Permits—Gas Fixtures, ...	2	5	2	2	6	3	2	2	2	3	1	1	29
Permits—Water Heaters, ...	6	2	15	48	43	58	24	25	29	19	15	17	301
Inspections—Piping and Fixtures, ..	62	73	82	78	72	61	60	84	26	68	27	14	707
Inspections—Water Heaters, ...	15	4	18	63	60	60	33	26	29	25	17	22	372
Special Investigations, ...	69	25	20	92	23	44	26	59	13	95	70	65	601
Violations, ...	3	1		10	6	4	3	5	2				34

NOTE:—During the year, one hundred and eighty-eight certificates have been issued to the Springfield Gas Light Co. for meters and service.

PROSECUTIONS.

There have been but two (2) prosecutions for violating the building laws: one (1) for doing electrical work without a permit, and one (1) for performing plumbing work in violation of the law.

Each was fined five (5) dollars in Police Court.

BOARD OF APPEAL.

The report of the Board of Appeal will be found on the following page.

Respectfully submitted,

FRED W. LUMIS,
Building Commissioner.

There passed away, December 30, 1918, one of our fellow inspectors, Charles H. Sibley, Inspector of Elevators. For the past four years he had been a member of this Department. He seemed to have found his work and took great pleasure in his duties. He did things without being told. His uniformly good health, cheerful nature, and fine physique made life enjoyable wherever he went. The city has lost a good and faithful servant.

REPORT
OF THE
BOARD OF APPEAL

SPRINGFIELD, MASS., December 30, 1918.

Honorable City Council of the City of Springfield, Mass.

GENTLEMEN:—The Board of Appeal is gratified in being able to report that no cases have come before the Board during the year.

In view of the fact that the voters at the State election ratified amendment XIII. to the Constitution, the Board believes it would be advisable that consideration be given by your Honorable Body looking toward the revision of the present ordinance in accordance with the intent of the amendment.

Respectfully submitted,

T. J. O'BRIEN,
D. W. MELLEN,
G. C. GARDNER, *Chairman,*
Springfield Board of Appeal.

DEPARTMENT OF LAW.

REPORT

OF THE

DEPARTMENT OF LAW

To the City Council:—

As required by the provisions of the ordinance establishing the law department I hereby transmit to the city council a report of the business done by the department during the last year.

At the beginning of the year the city was a party in seventy-seven cases, classified as follows:—

Land-damage and water-damage cases arising from the construction of the new water works,.....	18
Land-damage cases arising from the taking of lands for public improvements,.....	28
Actions of tort for personal injuries resulting from alleged defects in highways,.....	18
Actions of contract for collection of money due the city,.....	5
Petitions for writs of certiorari,.....	2
Miscellaneous,.....	6
Total,.....	77

During the year eighty-seven cases have been begun, classified as follows:—

Land-damage cases arising from the taking of lands for public improvements,.....	45
Actions of tort for personal injuries resulting from alleged defects in highways,.....	24
Actions of contract for the collection of money due the city,.....	12
Miscellaneous,.....	6
Total,.....	87

There are now pending one hundred and eight cases, classified as follows:—

Land-damage and water-damage cases arising from the construction of the new water works,.....	18
Land-damage cases arising from the taking of lands for public improvements,.....	41
Actions of contract for the collection of money due the city,.....	15
Actions of tort for personal injuries resulting from alleged defects in highways,.....	28
Petitions for writs of certiorari,.....	2
Miscellaneous,.....	6
Total,.....	108

Thirteen cases have been tried and ²¹forty-three settled during the year.

The city solicitor was present at ²six meetings of the board on claims at which ⁴²eighty-three claims were disposed of. There are now pending ¹⁸twenty-seven small matters before the board.

⁶⁰Sixty-six written opinions have been furnished the mayor and other officials, boards, or committees on subjects touching the duties of their respective offices.

Contracts, bonds, deeds, obligations, and other legal instruments to the number of one hundred and nine, which have been required in the city's business, have been drawn.

⁷³Eleven ordinances have been scrutinized and approved.

The city solicitor drafted three petitions to the legislature for legislation and bills accompanying the same, all of which were enacted. They are chapter 163 of the special acts of 1918 entitled "An Act Authorizing the City of Springfield to Generate Electricity by Means of its Water System and to Use or Sell the Same," chapter 71 of the special acts of 1918 entitled "An Act Authorizing the City of Springfield to Acquire Land in the Town of Longmeadow for Park Purposes," and chapter 66 of the special acts of 1918 entitled "An Act to Authorize the City of Springfield to Take Land for School Purposes." Said chapter 163 authorizes the city to develop, use, and sell power on its Little River water system. Said chapter 71 enabled the city to accept gifts by James B. Burbank and Rudolph C. Born of land in Longmeadow for the extension of Forest Park. Said chapter 66 enabled the city to take five acres of land at Rushville for school purposes, whereas the general law would have restricted such a taking to two acres. In connection with these matters and others in which the city

was interested the city solicitor appeared eight times before legislative committees.

The hearings before the Public Service Commission on the new tariff of the Street Railway Company increasing the fares which was filed in the summer of 1917 were concluded in the early part of this year. See report of law department for last year for an account of the proceedings in this matter during 1917. The contention of the city that fares should not be increased within the city was upheld by the commission except that it permitted an increase of tariff between the central part of the city and Indian Orchard. Again in August last the Street Railway Company filed a tariff still further advancing rates, and hearings were had at Boston at which the city was represented by the city solicitor. The decision of the commission was a compromise between the requests of the company and the contentions of the cities and towns. For the central part of the city it effected an increase of fare from five to six cents.

The contest over the allowance of the will of the late Everett H. Barney has been adjusted by a compromise agreement with the approval of the court. The niece of Mr. Barney seriously contested the allowance of the will denying Mr. Barney's testamentary capacity. The facts were such as to give serious concern to counsel for the executor and the city solicitor. The case was settled by a compromise agreement executed by all parties in interest and approved by the court according to which the contestant was allowed \$225,000 and the city is to receive substantially the entire residue to be expended for park purposes and be relieved of the many vexatious and impracticable restrictions imposed by the will.

During the year at the request of the Connecticut River Bridge Commission the commission's report to the court has been recommitted to the commission and a hearing has been had at which the city and all of the other cities and towns in the county with practically unanimity urged the commission to present plans for a new bridge straight across the river from a point at or near the foot of Vernon street. The commission now has the matter under advisement and has not yet presented its report.

Respectfully submitted,

CHARLES H. BECKWITH,
City Solicitor.

PARK COMMISSIONERS.

REPORT OF THE PARK COMMISSIONERS

SPRINGFIELD, MASS., December 23, 1918.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

As required by the Revised Laws of the Commonwealth of Massachusetts of 1902, Chapter 28, Section 13, entitled "Of Public Parks, Playgrounds, and Public Domain," the Board of Park Commissioners of the City of Springfield have the honor to submit their thirty-sixth (36th) annual report for the year ending November 30, 1918.

The board was organized for the year with Stanhope E. Blunt, president, and Charles E. Ladd, secretary, the present members of the board being Stanhope E. Blunt, Nathan D. Bill, Theodor R. Geisel, Charles Adams, and Dwight R. Winter.

During the year, with the approval of the City Council, two small parks have been added: Glendell Terrace and Morningside Park.

The heirs of the late Mr. Alfred N. Mayo have generously offered to donate for park purposes and as an extension to Forest Park the land of the Springfield Brick Company whenever the necessary deeds are prepared by the city. This tract contains about 70 acres of land lying south and east of the park and is especially adapted for the proposed development of Forest Park. The present addition together with what has been acquired during the past two years amounts to 272 acres of land, making the total area of Forest Park 726 acres. The valuation of this park is placed at one and one half millions of dollars, and has cost the city about \$50,000, exclusive of the amount to be paid to John W. Glynn for his land which was taken by condemnation proceedings. Springfield has just cause to be proud of her public-spirited citizens who by their generous donations have made it possible for her to have such an extensive and beautiful park.

With the urgent need for practical economy on account of the war we are unable to report any unusual or extensive improvements undertaken during the year just closed. Beginning the year 1918 with an appropriation of forty-five thousand dollars (\$45,000) less than was appropriated in

1917, and having an unexpended balance of two thousand dollars (\$2,000) at the end of the year, we feel that the emphasis should be placed on what has been saved rather than what has been done as the report for the year. Such a policy carried out for a term of years would be unwise and in the end would prove expensive. Under the present circumstances no harm has resulted.

In addition to the usual care of the several parks under our control, such other work was done as was absolutely essential for the economical administration of this department. Pecousic Hill was repaired in a number of places and this road for its entire length was given a coat of tar and sanded. Under ordinary conditions the travel on this road, being the main artery from the south, is very heavy, but since the beginning of the war it has greatly increased, especially the heavily loaded trucks, which are a severe test for any road. A brick or granite block pavement on a concrete base would no doubt prove the most durable pavement for this hill, but in view of certain improvements contemplating changes in grades and location of the road, no permanent pavement should be laid until these changes are made.

Long Hill street from Washington boulevard to South street was also given a coat of tar and sanded.

We were unable to do any of the much-needed road work at Forest Park on account of our inability to secure rock and tar, but were obliged to resurface these roads with cinders.

The War Gardens at Forest Park proved very successful and great quantities of vegetables of all kinds were raised by the enthusiastic amateur farmers made up of men, women, and children. A conservative estimate of the produce raised on these gardens the past season is placed at \$35,000. The results were so satisfactory that we have voted to allow them to be used for another season.

Court Square has been the scene of many activities since the declaration of war, which under ordinary conditions would not have been permitted. Tents, billboards, and recently a hut built by the Knights of Columbus have occupied the greater part of this inclosure, with no serious inconvenience to any one. While there have been some protests against the Square being appropriated for this purpose we feel that if in any way these things have contributed to the one great cause of winning the war, surely this in itself is sufficient explanation and justification for the purposes for which it has been used.

By a vote of the City Council the Division of Forestry was transferred from the Department of Streets and Engineering to this department, and beginning March 1 we assumed control of all street trees. Mr. L. Fletcher

Prouty, a foreman in this department, was placed in charge of this division, and we are pleased to report that his work has been very satisfactory. The care of street trees is one of the very important functions of the municipality. Under the administration of Mr. Gale as city forester our trees were well looked after, and Springfield was noted far and wide for her beautiful shade trees. Since he gave up this work our trees have been sadly neglected, and upon assuming charge of the work we found a most deplorable state of affairs. Unsightly and partially dead trees were left standing which should have been replaced with young and healthy trees. Most of the trees were sadly in need of pruning, while many of the maples and elms throughout the city were completely covered with scale that was rapidly sapping the life of the trees. This latter was the most serious condition we found and it will require considerable spraying of these trees before they are free from scale. Many of the street trees have been killed by gas poisoning, although no action on the part of any one connected with the city had been taken to recover damages for such losses. Leaks in gas mains are oftentimes unavoidable, but it does not necessarily follow that the city shall allow the trees to be killed in this manner without some redress for damages.

Since assuming charge of this work 151 trees were removed and 1,250 trees set out, which is more than have been set out by the Forestry Division during the last four years. Spraying trees, which a few years ago was considered very expensive, is now done at much less cost due to improvement in equipment. During the year 6,543 elm trees were sprayed for the elm leaf beetle, and 1,635 elm and maple trees were sprayed for scale.

Under the Division of Recreation, notwithstanding the great difficulty we experienced in securing young men for instructors, the year has been very satisfactory. Early in the year Mr. A. E. Metzdorf, connected for a number of years as director in this department, resigned, and his place was filled by the appointment of Mr. H. A. Sexton. Mr. Sexton's work has been entirely satisfactory, and we feel that the department is very fortunate in securing the services of one who is so well equipped to carry on this work. During the year eighteen playgrounds and two swimming pools were operated. The attendance at some of the playgrounds showed a falling off from previous years, but this was to be expected, especially from the older boys and grown-ups, most of whom were in some kind of war service. The attendance at the swimming pools showed even a greater falling off in attendance than the playgrounds. During the winter many people both old and young availed themselves of the opportunities for skating, which was exceptionally good and the season unusually long.

For a number of years there has been a very urgent demand for bathing facilities at the north end of the city. The Connecticut River is neither safe nor sanitary, while the only other place that has been suggested is the Van Horn Reservoir. This is unsafe both on account of its depth and the steep slope of its basin. In order to meet this constantly increasing demand on the part of the people of this section of the city we recommend that the City Council investigate as to the advisability of building a natatorium on the north side of West street. This land is owned by the city, and a natatorium erected here would accommodate all of that section of the city lying north of the Arch.

There are a number of important improvements that we are anxious to see undertaken during the coming year, the most important of which are as follows:—

Stearns Square should be improved at once. The plan for its development contemplates the removal of the fountain and stone seat, the laying out of walks best suited to meet the convenience of the public, and the planting of ornamental and flowering shrubs along the walk and outer edges of the park. Trees are to be set out, and flower beds placed on the Worthington and Bridge street ends of the square. This is not the plan suggested by Olmsted Brothers, but is very similar to the one used for Court Square Extension. The cost of this improvement is estimated at three thousand (\$3,000) dollars.

Gurdon Bill Park should be developed this year, and as we have the money for doing this work no appropriation will be required.

A liberal amount of road work should be done at Forest Park. Many of these roads are narrow and very crooked, and they should be widened and straightened where possible. These roads were built many years ago, long before the automobile came into such general use, and they are inadequate to meet the present conditions of travel. No heavy foundation is required for these roads, and they are comparatively inexpensive to build.

The work of extending the boulevard drive should be continued. A good start was made on this road a year ago, and it is planned to do as much work this winter as the weather conditions will permit. One other improvement is so closely connected with the building of the boulevard that it forms a very important part of the great plan for the development of this section of Forest Park. This part of the plan contemplates the building of a causeway across Pecousic valley just east of the skating ponds and flooding about 35 or 40 acres of swamp land and forming a beautiful lake. A drive is to be constructed around this lake, connecting with the boulevard drive. This lake is to be called Porter Lake, in memory of the late Sherman D. Porter, who bequeathed to the city ten thousand (\$10,000)

dollars to be used to improve the parks of Springfield. This sum with accrued interest amounts to more than \$11,000, and will be used to defray the expense of building this lake as far as it will go.

The carrying out of this plan will greatly add to the usefulness and attractiveness of Forest Park. The lake will make an ideal place for boating in the summer months and in the winter it will be equally attractive for skating.

Below is the financial statement showing the receipts and expenditures for the year. Of the special funds in the hands of this board forty-five thousand (\$45,000) dollars have been invested in Liberty Bonds:—

GENERAL FUNDS.

RECEIPTS.

Appropriation, ...	\$123,161.12	
Available for re-appropriation, . .	74.52	
		\$123,235.64

EXPENDITURES.

Parks, Administration, ...	\$18,234.57	
Operation, ...	84,956.18	
		\$103,190.75
Playgrounds, Administration, . .	\$1,503.09	
Operation, ...	15,221.47	
		16,724.56
Drinking fountains, ...		815.74
New equipment, ...		352.50
		\$121,083.55
Unexpended balance,		2,152.09
		\$123,235.64

VAN HORN SPECIAL APPROPRIATION.

Receipts, Balance from 1917, . . .	\$1,272.55
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SPECIAL FUNDS.

COURT SQUARE EXTENSION.

Receipts, Balance from 1917, . .	\$31,589.34	
Interest, ...	1,311.18	
		\$32,900.52

SHERMAN D. PORTER FUND.

Receipts, Balance from 1917, . .	\$10,705.27	
Interest and balance, . .	1,210.42	
	\$11,915.69	
Expenditures, Accrued interest on bonds purchased, ...	68.27	
		\$11,847.42

HELEN M. HOSLEY FUND.

Receipts, Balance from 1917, . .	\$4,782.40	
Interest, ...	198.10	
	\$4,980.50	
Expenditures, Accrued interest on bonds purchased, ...	29.26	
		\$4,951.24

GURDON BILL FUND.

Receipts, Balance from 1917, . .	\$4,894.27	
Interest, ...	177.55	
	\$5,071.82	
Expenditures, Material, ...	130.13	
		\$4,941.69

MCKINLEY MONUMENT FUND.

Receipts, Balance from 1917, . .	\$638.94	
Interest, ...	25.49	
		\$664.43

WM. H. SMITH FUND.

Receipts, Balance from 1917, . .	\$635.32	
Interest, ...	25.34	
		\$660.66

CHARLES S. MARSH FUND.

Receipts, Balance from 1917, . .	\$322.62	
Interest, ...	12.87	
		\$335.49

STANHOPE E. BLUNT,
NATHAN D. BILL,
THEO. R. GEISEL,
CHARLES ADAMS,
DWIGHT R. WINTER,
Board of Park Commissioners.

CHARLES E. LADD, *Secretary.*

LICENSE COMMISSIONERS.

REPORT

OF THE

BOARD OF LICENSE COMMISSIONERS

SPRINGFIELD, MASS., November 30, 1918.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

The Board of License Commissioners beg to submit their annual report for 1918.

The Licenses granted to date, to expire May 1, 1919, are as follows:—

COMMON VICTUALERS—FIRST CLASS.

To sell liquors of any kind to be drunk on the premises. Fee, \$1,500.

Biscotti Co.,	202-206 Dwight street.
Breglio, P. A., & Co.,	349-351 Dwight and 319-323 Worthington streets.
Bresnahan, Jas. F., & Co.,	483 Main and 18 Market streets.
Bresnahan & Buckley,	743-736 Main street.
Burke, Thos. J., & Co.,	521 Main and 4 Stockbridge streets.
Burke & Glynn,	514 Worthington street.
Cone, W. H.,	41 Hampden street.
Coughlin, J. H.,	116 State street.
Crowley, M. J., Co., Inc.,	485 State and 3 Walnut streets.
Delaney, Bernard J.,	603 Main street.
Donovan, J. B., & Co.,	23 Walnut street.
Donovan, M. J., & Co.,	179 Main and 11 Ferry streets.
Duquette, A. H., & Co.,	552 Main street.
Farland, Fred, & Co.,	547½ Main and 4 Cross streets.
Hohenberger, H. S.,	121 Water street.
Isaacs, Walter, & Co.,	225 Main street.
Joslin, A. A., & Co.,	208 Worthington street.
Kelley, John B., & Co.,	167 Bridge street.
Kernan, Jas. F.,	642 North and 173 Sharon streets.
LaChapelle & Cunningham,	64 Bridge and 71 Water streets.
Lange, Theodor, & Co.,	249 Bridge street.
Lennehan & Co.,	215-217 Worthington street.
Lenox Cafe Co.,	167 Main street.
Lubold, H. E., & Co.,	11 Lyman street.
Maloney, James, & Co.,	27 Market and 15 Sanford streets.

Maloney, P. F., & Co.,

30 and 32 East Court and 4 New streets.

Mruphy, C. J., & Co.,

329 Worthington street.

Murphy, J. J., & Co.,

8 Walnut street.

Murphy, William J., Co.,

45-47 Market street.

O'Brien, P. J., & Co.,

658 North and 89 Congress streets.

Pessalano & Mazzaferro,

333 Water street.

Reidy, J. A., & Co.,

157 Main and 10 Sharon streets.

Roos, Maximilian, & Co.,

69 Water street.

Schenck, Wm. A., & Co.,

3-5-7 East Court and 50 Market streets.

Scully, J. F., & Co.,

660½ Main street.

Shea, J. J., & Co.,

864 North and 86 Essex streets.

Splaine Bros.,

12 Sanford and 34 Market streets.

Sullivan, D. F.,

282 Main street, I. O.

Sullivan, P. F., Co., Inc.,

209 Chestnut, and 131 Lyman streets.

Sullivan & O'Connor, Inc.,

190 Main street.

The Sullivan Co., Inc.,

196 Ferry and 609 North streets.

Toole, John J., & Co.,

69-71-73 Market street.

Toomey & Cody Co., Inc.,

143 Main and 8 Congress streets.

Ward, Wm. T., & Co.,

201 Main and 4 Liberty streets.

Welch, T. P., & Co.,

193 Main street.

Winkler Bros.,

63 Bridge and 79 Water streets.

Young, Wm. M.,

145 Main and 7 Congress streets.

Zimmerman, Louis B.,

121 Lyman street.

Number of First Class Licenses, 47.

WHOLESALE—FOURTH CLASS (CLASS W).

To sell liquors of any kind not to be drunk on the premises. Fee, \$2,000.

Barry, Garratt S.,

253 Bridge street.

Coates, E. M., Co., Inc.,

5-11 Market street.

Jefferson & Deely,

214 Worthington street.

Kushner, Isaac,

169½ Main street.

Toomey & Cody Co., Inc.,

135-141 Main street.

Young, Wm. M.,

147-147½ Main street.

Number of Wholesale Licenses, Class W, 6.

FOURTH CLASS (CLASS R).

To sell liquors of any kind not to be drunk on the premises. Fee, \$1,500.

Curran, Wm. J., & Co.,

25 Market and 17 Sanford streets.

Delaney, Bernard J., Co.,

599 Main street.

Dillon, Jas. F., & Co.,

704 Main street.

Doyle, Geo. W., & Co.,	560 Main street.
The Howard Co.,	21-23 Lyman street.
McNamara, Dennis, & Co.,	286 Main street, I. O.
Murphy, C. J., & Co.,	333 Worthington street.
Rieutord, C. E., & Co.,	146 Main street, I. O.
Ryan, S. A., & Co., Inc.,	183 Main street.
Shea, M. F., Co.,	850-854 North and 83 Essex streets.
Tone, Phil, & Co.,	591 Main and 125 Union streets.
Walsh, John J., & Co.,	25 Walnut Street.

Number of Fourth Class Licenses, Class R, 12.

BREWERS—FIFTH CLASS.

Fee, \$2,700.

Springfield Breweries Co.,	Liberty and Charles streets.
Springfield Breweries Co.,	Fort and Water streets.
Springfield Breweries Co.,	1273 State street.

Number of Brewer's Licenses, 3.

INNOLDERS—FIRST AND FOURTH CLASSES.

To sell liquor of any kind. Fee, \$2,250.

Empire Hotel Co.,	657-659-659½ Main street.
Guyer, A. G., & Co.,	Court Square Hotel.
Hampden Hotel Co.,	Hotel Kimball.
Hartenstein, Louis B.,	Hotel Russell.
Hartt, John E., & Co.,	93-95 State street.
Henking Hotel Co.,	15-17 Lyman street.
Indian Leap Hotel Co.,	179 Main street, I. O.
Katz, Louis & L. B.	Chandler Hotel.
McCarthy, J. J., & Co.,	Hotel Grand.
National House,	13 Oak street, I. O.
New Gilmore Hotel Co.,	Hotel Bellevue.
New Gilmore Hotel Co.,	Hotel Hawkins.
New Haynes Hotel Co.,	8-10-12 Pynchon and 400 Main streets.
Shean, C. T., & Co.,	Cooley Hotel.
Siever, D. H., & Co.,	Highland Hotel.
Worthy Hotel, Inc.,	Worthy Hotel.

Number of Innholders' Licenses, 16.

DRUGGISTS—SIXTH CLASS.

To sell liquors of any kind for medicinal, mechanical, and chemical purposes only. Fee, \$1.00.

Adams, C. F.,	54 Walnut street.
Barker, I. R.,	32 Main street.

Bartlett, John L.,	749 Sumner avenue.
Boehm, A. H.,	809 Liberty street.
Broughton, R. A.,	155 Sherman street.
Cabana, G. E.,	298 Franklin street.
Campbell, E. T.,	643 Main street.
Chenette, Jos. E.,	164 Main street, I. O.
Clancy, D. M.,	152 Main street, I. O.
Dearborn, H. W.,	1081 State street.
DeFrate & Raleigh,	188 State street.
Delehanty, J. W.,	492 Mill street.
Dickinson, H. F.,	298 Belmont avenue.
Elsey, H. P.,	609 Main street.
Erard, P. V.,	398 N. Main street.
Flittner, F. B.,	377-379 Main street.
Fortier, Ulysses,	429 Main street.
Harrington, J. J.,	360 State street.
Hayn, Herman,	807 Main street.
Jorczak, J. J.,	12½ Parker street, I. O.
Knight, L. W.,	326 North Main street.
Leonard, E. F.,	72 Main street.
Lerche, A. E.,	325 Main street.
McCarthy, T. F.,	512 Sumner avenue.
McHugh, J. P.,	269 North Main street.
Mongeau, Paul,	218 Main street, I. O.
Nagle, W. S.,	59 Sumner avenue.
Noble, Wm. B.,	167 Chestnut street.
O'Connell, J. W.,	477 State street.
Reardon, T. F.,	368 Chestnut street.
Roger, R. B.,	827 State street.
Rudden, Eugene,	591 Liberty street.
Ryan, Chas. V.,	194-196 Main street.
Sadler, W. M.,	530-532 Main street.
Shankman, A. M.,	1171 North street.
Smith, Fred H.	372 Belmont avenue.
Smith, John D.,	279 Main street.
Sunter, Alexander,	85 Wilbraham road.
Sunter, Wm.,	165 Oakland street.
Sweeney, Edw. J.,	428 Plainfield street.
Terney, L. B.,	438 Chestnut street.
Thompson, F. W.,	503 Main street.
Vezina, Raoul,	441 Armory street.
Wheeler, F. N.,	802 State street.

Total number of Druggists' Licenses, 47.

SEVENTH CLASS.

Brewer, H. & J., Co., 401 Dwight and 71 Taylor streets.

CLUB LICENSES.

To distribute and dispense intoxicating liquors to members to be drunk on the premises. Fee, \$300.

Colony Club,	50 Maple street.
Nayasset Club,	61-67 State street.
Palm Leaf Social Club,	542 Main street.
Springfield Lodge of Elks,	311 State street.
Springfield Turnverein,	79-83 State street.

Total number of Club Licences, 5.

Number of First, Fourth, and Fifth Class Licenses,.....	85
Number of Sixth Class Licenses,.....	47
Number of Seventh Class Licenses,.....	1
Number of Club Licenses,.....	5

Total number of Licenses,.....139

SPECIAL SUNDAY LICENSES. For the sale of fruit, ice-cream, candy, etc. Fee, \$5.00. Number, 173.

COMMON VICTUALERS' LICENSES. Fee, \$5.00. Number, 83.

INNOLDERS' LICENSES. Fee, \$5.00. Number, 5.

LODGING HOUSE LICENSES. No fee. Number, 228.

Meetings were held January 11; March 1; April 8, 11, 17, 22, 29, and 30; May 16, 20, and 31; July 9; August 2, 7, 14; September 13; October 14, 28, and November 29, 1918.

On January 11, the First and Fourth Class Licenses held by Chas. Grise & Co. and exercised at the National House, Indian Orchard, were suspended from January 12 to January 21, following the conviction of the licensees in the police court for illegal liquor selling.

On March 1, the Sixth Class License held by John H. Welch and exercised at 554 Belmont avenue was suspended indefinitely, following a conviction in the police court for illegal liquor selling, and the First and Fourth Class Licenses held by the Empire Hotel Co. were suspended from March 2 to March 13, following the conviction of two waiters at the Hotel Empire for illegal liquor selling.

On April 11, the First and Fourth Class Licenses held by the Gilmore Hotel Co. were cancelled and licenses of the First and Fourth Classes were granted to the New Gilmore Hotel Co.

On April 17 hearings were given to a committee from the Citizens' League relative to issuing new licenses, and to a committee representing the Retail Grocers' Association, concerning the issue of Sunday licenses to stores handling groceries.

On May 31, the First Class License granted to Guyott & Co. was cancelled and a First Class License granted to Walter C. Isaacs & Co. in the former location of Guyott & Co. at 225 Main street.

On August 14 hearings were given to the Empire Hotel Co., whose waiter was convicted in police court of illegal liquor selling, and to John E. Hartt & Co., whose waiter was also convicted in police court of a similar offense. The licenses of the former were suspended from August 17 to August 31 and of the latter to August 24.

On October 14 the Sixth Class License granted for the current year to Marshall Johnson was cancelled. The application of Channing DeFrate for a Sixth Class License at the same location, 188 State street, was read and granted; also the First and Fourth Class Licenses granted for the current year to the Bellevue Hotel Co. were transferred to The New Gilmore Hotel Co. to be exercised at the Hotel Bellevue.

At this same meeting it was voted that the chairman of the Board should be empowered to confer with the four licensees on Walnut street in regard to improving conditions in that locality in accordance with the request of the Federal Government. On October 28, the Chairman reported that said licensees had voluntarily agreed to close their places of business during the noon hour. A letter of congratulation and commendation concerning this prompt action was received from Major Wright, District Supervisor of the Commission on Training Camp Activities.

In accordance with Chapter 259 of the Laws of Massachusetts, which requires that houses having more than five lodgers shall be licensed, when approved by the police, the Board of License Commissioners issued two hundred and thirty lodging houses since the law became operative on August first.

The expenses of the Board were as follows:—

Salary of Chairman,.....	\$250.00
Salary of Clerk,.....	150.00
Extra clerk hire,.....	125.00
Printing,.....	94.87
Total,.....	<u>\$619.87</u>

Respectfully submitted,

WILLIAM M. STEVENSON,
HUGH J. DONNELLY,
GEORGE G. TAIT,

Board of License Commissioners.

WM. M. STEVENSON, *Secretary.*

CITY CLERK'S REPORT.

CITY CLERK'S REPORT

CITY CLERK'S OFFICE, ADMINISTRATION BUILDING,
January 13, 1919.

To the City Council of the City of Springfield:—

I herewith submit the following report for the year ending November 30, 1918.

The amount of fees received by me for official services, from December 1, 1917, to December 1, 1918, is as follows, said sum having been paid by me to the City Treasurer:—

For marriage certificates,.....	\$1,175.00
For kerosene and gasoline certificates,.....	3.50
For recording and indexing dog licenses,.....	469.80
For copies of record,.....	342.40

For recording and indexing the following papers:—

Agreements,.....	.45
Assignments of leases,.....	.25
Assignments of mortgages,.....	9.25
Assignments of bills of sale,.....	.25
Voluntary assignments,.....	16.00
Assignments of wages,.....	7.25
Attachments of personal property,.....	1.75
Bills of sale,.....	43.10
Contracts,.....	6.25
Discharges of mortgages,.....	52.70
Leases,.....	25.10
Marriage records,.....	11.00
Married women's certificates,.....	7.50
Mortgages on personal property,.....	383.00
Renewals of mortgages,.....	.25
Notices of foreclosure,.....	4.65
Physician's certificates,.....	5.25
Powers of attorney,.....	.25
Interest,.....	39.85
Witness fees,.....	2.20
	\$2,607.00

There has been paid to the County Treasurer the sum of \$5,283.20, being the amount due the County of Hampden for dog licenses, less fees for recording, from December 1, 1917, to December 1, 1918.

The sum of \$1,969, amount due for six hunters' licenses at \$10 each, and 1,909 at \$1.00 each, has been paid to the State.

ELIJAH A. NEWELL, *City Clerk.*

SPRINGFIELD, MASS., January 13, 1919.

I hereby certify that the foregoing report of the City Clerk is correct, as per his records and receipts on file in his office.

WM. G. McINTIRE,
City Auditor.

The number of marriage intentions filed during the year is	1,135
The number of marriages for the year is	1,300
The number of deaths for the year is	2,915
The number of births for the year is	4,200

VOTERS AND REGISTRATION.

The following table shows the number of men and women who registered as voters in 1917 and 1918:—

1917.					1918.				
Ward	Precinct	Men	Women	Total	Ward	Precinct	Men	Women	Total
1	A	84		84	1	A	58		58
1	B	80		80	1	B	66		66
1	C	65		65	1	C	53		53
1	D	26		26	1	D	38		38
2	A	73		73	2	A	37		37
2	B	60		60	2	B	46		46
2	C	101		101	2	C	57		57
2	D	68		68	2	D	51		51
2	E	39		39	2	E	37		37
3	A	96		96	3	A	31		31
3	B	67		67	3	B	38		38
3	C	60		60	3	C	22		22
3	D	75		75	3	D	41		41
4	A	40		40	4	A	52		52
4	B	68		68	4	B	43		43
4	C	50		50	4	C	34		34
4	D	46	1	47	4	D	51		51
5	A	46		46	5	A	45		45
5	B	20		20	5	B	25		25
5	C	29	2	31	5	C	41		41
5	D	49		49	5	D	52		52
6	A	48		48	6	A	22		22
6	B	44		44	6	B	33		33
6	C	27		27	6	C	28		28
6	D	27		27	6	D	29		29
7	A	40		40	7	A	64		64
7	B	29		29	7	B	43		43
7	C	35		35	7	C	48		48
7	D	33	2	35	7	D	72	1	73
8	A	35		35	8	A	22		22
8	B	45		45	8	B	55		55
8	C	27		27	8	C	59	1	60
8	D	47		47	8	D	52		52
8	E	33		33	8	E	39		39
8	F	21		21	8	F	24		24
		1,738	5	1,738			1,508	2	1,510

The following table shows the number of assessed polls and the number of men and women on the voting list at the city elections December, 1917 and 1918:—

1917.					1918.				
Ward	Precinct	Assessed Polls	Men	Women	Ward	Precinct	Assessed Polls	Men	Women
1	A	1,335	642	4	1	A	1,863	643	2
1	B	1,080	654	17	1	B	1,135	669	15
1	C	1,241	682	23	1	C	1,186	650	23
1	D	537	517	16	1	D	881	537	15
2	A	1,887	588	22	2	A	1,283	537	19
2	B	1,396	567	16	2	B	1,447	533	15
2	C	2,083	619	7	2	C	2,367	588	7
2	D	1,109	611	12	2	D	1,265	629	11
2	E	1,059	604	24	2	E	979	536	23
3	A	784	485	5	3	A	803	391	3
3	B	1,291	536	49	3	B	1,266	492	43
3	C	958	423	43	3	C	936	410	34
3	D	1,536	584	31	3	D	1,596	545	32
4	A	992	612	72	4	A	988	619	68
4	B	1,266	680	19	4	B	1,259	633	18
4	C	830	590	26	4	C	1,066	555	20
4	D	967	606	36	4	D	1,021	602	36
5	A	1,287	659	65	5	A	1,315	668	60
5	B	636	495	114	5	B	653	506	108
5	C	792	526	71	5	C	767	523	64
5	D	1,187	614	90	5	D	1,250	639	87
6	A	1,065	465	8	6	A	1,043	426	7
6	B	777	473	37	6	B	830	473	36
6	C	850	648	65	6	C	929	666	66
6	D	735	531	41	6	D	804	551	36
7	A	954	642	10	7	A	1,095	630	11
7	B	744	594	24	7	B	780	539	23
7	C	877	627	12	7	C	1,001	638	12
7	D	1,014	723	18	7	D	1,186	831	20
8	A	715	317	5	8	A	777	335	4
8	B	992	510	20	8	B	1,018	518	20
8	C	905	517	32	8	C	879	539	33
8	D	1,119	705	21	8	D	1,131	757	21
8	E	1,033	504	9	8	E	1,006	509	7
8	F	1,421	357	1	8	F	1,603	377	1
		37,354	19,367	1,065			38,913	19,899	1,000

Respectfully submitted,

ELIJAH A. NEWELL, *City Clerk.*

PUBLIC SAFETY.

REPORT

OF THE

COMMITTEE ON PUBLIC SAFETY

SPRINGFIELD, MASS., December 1, 1918.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

From its appointment to the present time, the Committee on Public Safety has passed through two stages: first, as a body chosen by the Mayor, but without municipal standing; second, as a legally organized department of the city government. During its whole career, however, the Committee has been finding its way without even a blazed path to guide its course. In other words, the emergency which called it into being was of such a nature that there were no precedents for the details of its activities. Moreover, it has had the advantage of very little light from the experience of other cities, for, with one exception, no other municipality in Massachusetts adopted the provisions of the chapter (General Acts, 264, 1917) which allowed cities and towns of this Commonwealth to create a Committee on Public Safety. Notwithstanding this difficulty, it has made a constant endeavor to be a medium of expression and of action in the various war needs which have demanded the attention of the city.

With this form of public duty laid upon it, the Committee has responded to such calls for service to the city or state or nation as have appeared to be contemplated by the intent of the ordinance by which the Committee was created.

Led by this spirit, it has gladly served the Mayor and other members of the official family of the municipality in replying to correspondence, making investigations, or in assisting in the promotion of those enterprises in behalf of which it has seemed proper for the Committee to take action.

Since the Committee began its work, its relationship with other organizations engaged in some form of war activity has been necessarily somewhat intimate; this is especially true of the Red Cross, Chamber of Commerce, Board of Health, Hampden County Improvement League, Bureau of Immigration of Massachusetts, Bureau of Markets Reporting Service, and the Department of Justice, the latter two being under the national government.

In addition to this, many individuals have appealed to the office of the Committee for information and for various forms of personal help, or have given to the Committee light on some attempt against the safety of the community. Whenever opportunities for assisting people have come to its attention, it is one of the cordially adopted customs of the Committee's office to make the broadest possible interpretation of its mission. Matters of this kind cannot be reported in detail, but they have freely received both time and thought.

On the 20th of March, after enjoying for a year an office room as guest of the Chamber of Commerce, the Committee removed its executive force to the room in the Municipal Building which the Park Commission at that time generously surrendered. Here the Committee's work has been accomplished under conditions of great convenience both for itself and for the other departments of the city which on occasion it has been able to serve.

OFFICIAL FORCE.

In response to the increasing demands of the Committee's task, the number of secretaries and other assistants has grown. But with the closing on December 1 of all of the Food Conservation centers, there remains only the force at the executive office in the Administration Building and the assistant at the office of the Fuel Committee. It is a pleasure to announce that the Committee's employees have had the power of vision to see clearly the relationship of their work to our country's great need.

SERVICEABLENESS.

With a policy of accepting responsibility in a large way, the Committee has, from time to time, adopted sub-committees, whose duties have been of such a comprehensive character that the Committee was prepared to undertake a new work with promptness and efficiency. For instance, without new machinery or loss of time the Committee has been able to care for such matters as the collection of the great quantity of clothes for Belgian Relief; the enrollment of hundreds of men for the United States Shipping Board; the feeding at an hour's notice of thousands of soldiers; the carrying through of some enterprise for the benefit of soldiers' funds; aiding the city to fight the influenza; clearing up delayed correspondence for the ordnance depot; gathering phonograph records for the boys in service; securing peach stones for carbon used in gas masks; registration of the unemployed.

HALIFAX CATASTROPHE.

On December 7, 1917, the city was greatly shocked by the news of the catastrophe in Halifax, N. S. The following Sunday afternoon the Committee conducted in the Auditorium a mass meeting to consider Springfield's duty to the sufferers. On that occasion it was agreed that fifteen thousand dollars should be Springfield's share in the great relief fund, but under the leadership of a special committee, Fred T. Ley, chairman, appointed by the Committee on Public Safety, the amount very happily reached sixteen thousand dollars.

FUEL.

In the month of December, 1917, the Committee was induced by the acuteness of the fuel shortage to call a meeting of citizens at the Chamber of Commerce to consider the situation. Then, as in other instances, the patriotic response of manufacturers and storekeepers very greatly mitigated the threatened peril.

It was announced on December 31 that the Committee on Public Safety and the Fuel Board had arranged for the purchase by the city of a large supply of coal to be sold in 100 pound lots to people in actual distress. This measure brought great relief to a large number of families. During the season the city disposed of 600 tons, the receipts being \$8,000. The net cost of the coal distribution to the city was \$1,939.71, which was paid from the Committee's appropriation.

Early in the spring the chairman of the Committee, together with the Fuel Commission and representatives of the Chamber of Commerce, met on several occasions to consider the agitation of the purchase of large quantities of wood as a substitute for coal. In these conferences the chairman made it clear that the Committee on Public Safety would be glad to assist in every possible way in making ample provision for a winter's supply of wood. Because of lack of interest, however, on the part of the largest users of fuel this project was never carried to the extent of forming a wood corporation, as was at first proposed, and the Committee on Public Safety was not required to lend further aid in the matter.

"RETURN LOAD" TRANSPORTATION.

Owing to the congestion of freight on the railroads, the Committee in March, 1918, took active measures to relieve the situation. It conducted an investigation of the subject and entered heartily into devising plans

which might help local manufacturers and others with their transportation problems. A little later, however, it was discovered that the Chamber of Commerce had already concerned itself with the same matter, and to avoid duplication all subsequent work of this kind was left to that organization.

FUND FOR THE 104TH REGIMENT.

In a letter to the Mayor, dated January 31, Brigadier-General Charles H. Cole of the 26th Division made an appeal for a fund of \$5,000 for the purchase of comforts for the 104th Regiment in France. Both the Mayor and the Committee, to whom he referred the letter, heartily adopted the suggestion. The execution of the matter was intrusted to the Committee, and, with the personal co-operation of the Mayor, immediate steps were taken not only in this city but in other municipalities represented in the 104th Regiment to raise this sum. Some communities have already forwarded money directly to France. Ralph P. Alden, treasurer of the Committee, has acted as trustee of the local fund. The following is a financial statement:—

Receipts, Military Drill and Dance, April 12, ...	\$1,276.79
Tournament, April 20, ...	296.79
Miss Parker's Dance, April 15, ...	337.10
Contribution from Underwriters' Association of Western Massachusetts, ...	34.00
Forest Park Dramatic Club, ...	35.00
Proceeds from Baseball Game, May 26, ...	\$79.90
Proceeds from Baseball Game, ...	120.25
Contribution, Chapman Valve Company, ...	200.15
Committee on Public Safety, Ware, ...	160.00
Independence Day Association, ...	200.00
James Donoghue, from Sunday baseball games, ...	100.00
Total receipts, ...	\$2,739.83
Check to purchase draft of 10,000 francs sent to 104th Regiment in France, ...	1,754.00
Balance on hand, ...	\$985.83

ASSISTANCE IN RECRUITING.

Because of the common understanding that every man was needed for the armies opposed to the German ambitions, the Committee has done what it could to promote the success of recruiting soldiers from Springfield for the mission which had control of the recruiting of British subjects.

"HAPPY JACK'S THRIFT CLUB."

To aid in the essential work of raising money for the support of the national government, a local committee has been constantly at work with the Thrift and War Savings Stamps. As a means of assisting this enterprise, the Committee on Public Safety paid the expense of publishing for local use the first edition of the Burgess stories, "Happy Jack's Thrift Club." To this co-operation the committee on war savings has attributed an important element of the success of its undertaking in this city. The booklet has since had a wide reading throughout the land, and has secured deserved popularity for its usefulness. Thus our city has given a helping hand to the whole national movement.

MARKET REPORTS.

Early in April, the Committee adopted the suggestion of the Bureau of Markets, United States Department of Agriculture, to co-operate with George W. Porter, Springfield agent, in compiling the prices charged for a somewhat complete list of staple articles of food. From these figures is made up, for the information of the people, a report showing the range of prices prevailing in the city. This compilation is not only published in the local papers, but it has been used by Professor William M. Machmer, Emergency District Demonstrating Agent of the United States Department of Agriculture, in several papers published at important centers throughout Western Massachusetts. The continued success of this system of gathering material is in a good degree due to the public-spirited co-operation of about twenty marketmen, who, during their busy forenoons, have given to the work the time required.

STATE GUARDS.

In the month of April, 1918, the Committee, having learned that the State had not made sufficient provision for the support of the companies of State Guards which had been organized in this city, made an appropriation to cover the expense of equipping Company S with 65 rifles. On July 10, the Committee supplied twenty-three hundred dollars for the purchase of two machine guns and other equipment for the Machine Gun Company. During the year more than three thousand dollars in all have been appropriated from the Committee's account for State Guard purposes, but no expenditures have been provided for without the approval of Colonel W. S. Warriner, the commanding officer.

MAYOR'S FUND.

In June, a Mayor's fund was raised from private contributions to defray expenses, not otherwise provided for, incident to a suitable farewell to the boys departing from Springfield to enter army service. The Committee on Public Safety has acted as trustee of this fund, paying bills on their approval by the Mayor. The following is a financial statement of the fund:—

Total receipts from contributions,.....	\$301.00
Expended for cigars and cigarettes,.....	\$257.33
Check returned to donor,.....	25.00
	282.33
Balance on hand,.....	\$18.67

MEMORIAL DAY.

Following the suggestion of one of its members, the Committee provided on Memorial Day this year a memorial for the twenty-two men, who at that time were known to have laid down their lives in the war. In front of the Campanile, with simple ceremony, the names of the hero dead were unrolled on canvas and lifted before the silent assembly of civilians who were uncovered and of soldiers who stood at attention. Wreaths were placed beneath the honor roll and after three volleys by a firing squad, the impressive exercises were closed with the sounding of taps.

INDEPENDENCE DAY.

By universal consent it was agreed that this year the Independence Day Celebration should be of such a character as to give special emphasis not only to America's welcome to the foreign-born, but also to her appreciation of the gifts which each nationality coming to our shores has added to our civic life.

At the suggestion of the Committee on Public Safety, a committee, Giles Blague, chairman, appointed by the Independence Day Association, established its headquarters in the Public Safety Committee's office and was given all necessary assistance to the end that a parade should be organized which should set forth the Committee's conviction concerning the existing opportunity in the field of Americanization. It was generally acknowledged that this parade was one of the most impressive as well as one of the most significant exhibitions of the great patriotic spirit which flourishes in our municipal life.

REGISTRATION OF THE UNEMPLOYED.

From the beginning of the war period the demand for workers increased sharply, but the supply of available labor was generally found to be inadequate. To care for this special need the legislature passed a statute which made it obligatory on each municipality to support a registration agent whose duty it should be to enroll able-bodied men between the ages of 18 and 50 who were out of work. In Springfield the appointee of the State Bureau of Statistics was the executive secretary of the Committee on Public Safety. Consequently, excepting a trifling outlay for postage, the city was saved any expense for this work of registration. During the period covered by the registration, 450 men were enrolled as unemployed. When the Governor of the state recently ordered the registration work closed, less than a dozen men were still reporting themselves as out of work. In this notable experience the judge of the police court and the department of police have rendered invaluable co-operation.

The registration added a considerable amount of labor to the day's work at the office, occupying at first the entire day of one person. But its value to the city was striking, for the number of men idling in public places diminished, honest seekers for employment were encouraged, if not helped, to find profitable labor, and the number of police court cases became materially less.

This registration was conducted with the determination to make it as helpful and personal as possible, and in that spirit not a few hours were spent with parents and wives as well as with the men themselves. In a very few cases warnings were not sufficient, and a method of regularity of habits made compulsory by some form of imprisonment followed.

So wholesome was the effect of the law that competent observers have expressed the hope that in some form it might be made permanent. But a few days after the cessation of hostilities, by proclamation of the Governor, its operation was suspended.

BASTILE DAY.

On July 14 two battalions of the 20th Regiment of the Massachusetts State Guards were the chief factor in the celebration in Springfield of the historic Bastile Day. And in behalf of the city the Committee acted as host to some of the members of the State Guards who came to Springfield from other municipalities. This anniversary seemed worthy of observance especially because of the sentiments aroused toward the French people by the experience of our armies in France and because only ten days earlier the same people had so heartily observed our own Independence

Day. The Committee furnished band music for the afternoon at Court Square, secured appropriate decorations for the band-stand, and unfurled a French flag which had been purchased for the purpose.

FAREWELL TO DEPARTING SOLDIERS.

Beginning with July 9 the Committee provided bands for the occasions when the boys in considerable numbers left our city for the U. S. Service. On July 23, when 480 Springfield men were entraining for Camp Devens, they were escorted to the station by United States Guards, the Mayor, representatives of the Department of Police, and the Committee on Public Safety.

PROPAGANDA AGAINST VICE DISEASES.

With the approval of its sub-committee on Medicine, Hygiene, and Sanitation, and at the suggestion of Dr. George T. O'Donnell of the State Board of Health, the Committee made possible an exhibition of the film "Fit to Fight" in the Auditorium. There is no doubt that every man who saw the picture received a powerful impulse to live a clean life. A few weeks later the Committee gave some assistance in the promotion of "Health Week." During this week many lectures were delivered daily to groups of women. The work closed with the exhibition of "The End of the Road," with its impressive appeal similar to that of "Fit to Fight."

HONOR FLAG.

On the reception of the honor flag bestowed upon the city in testimony to its success with its quota of the Third Liberty Loan, the Committee called to a conference with the Mayor representatives of United States and State Guard military leaders and the Scout executive of the city. At this meeting a short parade and ceremony were arranged which would express the city's appreciation of the importance of the victorious campaign and add, if possible, something to the patriotic passion felt throughout the city. The parade and presentation of the honor flag were observed on May 4 with fitting ceremony.

SERVICE FLAG.

Early in the year the Committee began to consider some form of recognition of the men who had entered the service. At length, after

careful deliberation upon various plans, it reached a decision to unfurl a large service flag directly in front of the Campanile. This position required that the flag should be of such dimensions as to be in harmony with the proportions of the tower. The banner bears the number of men from this city who have been enrolled with the U.S. and the allied armies in the war. A few days after the completion of the flag, Charles E. Lynch most patriotically contributed to the city the entire expense involved.

VICTORY DAY.

Both on November 7, when the false report of the signing of the armistice was received, and on November 12, following the memorable day when the authentic news was announced, the Committee directed the parades which celebrated the good news. On November 12, the largest and perhaps the most impressive procession in the history of the city marched between thousands of joyous but for the most part silent citizens. Great credit is due the Honorable Giles Blague and his assistants, who, with only a few hours' notice, arranged on behalf of the Committee the necessary details. The expense to the city was of course taken from the Committee's appropriation. Here again the Committee furnished a medium through which the public sentiment of Springfield could find suitable expression.

In the evening a continuation of the celebration was held in the Auditorium. To give to the people who might assemble at that time a fitting close to the day, the Committee carried out a program including both community singing accompanied by a band and the municipal organ; and devotional exercises and addresses which might interpret to the mind the meaning of the victory. The volume of song and the shining faces of the audience displayed the deep emotion which moved the hearts of the people. One of our newspapers characterized this part of the celebration as "the end of a perfect day."

THANKSGIVING DAY.

In order that the Thanksgiving Day service in the Auditorium under the direction of the Ministers' Association might this year have a civic character the Committee attended the exercises in a body, and the President's proclamation was read by His Honor the Mayor. Due to this participation by the City Government, and because of the attitude of the public mind, the attendance at this meeting was much increased over that of former years.

BRITAIN DAY.

In November, at the request of the City Council, the Committee on Public Safety took over the arrangements for the celebration of Britain Day, December 7, the day observed throughout the country in recognition of America's indebtedness to Great Britain during the war. Although the celebration itself took place in December and belongs properly to the report of next year, most of the details of the affair were provided for during the last days of the current municipal year.

CO-OPERATION WITH THE DEPARTMENT OF JUSTICE.

During the past year the Committee has had several conferences with representatives of the United States Department of Justice, and has reported to them such suspicious persons and circumstances as have come to its attention. Through its motor squad, also, the Committee has been able to transport agents of the department over long distances in Western Massachusetts.

PUBLICITY.

Much service has been rendered the city by the generous co-operation of the Park Department, the United Electric Light Company, and certain local advertising companies in making possible the bulletin board publicity which has notified the people of the work to be done or of the measures to be followed in winning the war. These boards have not only borne the messages of the Committee to the city, but they have also served in a similar way other patriotic organizations to whom the Committee has granted their use. Without the interested aid of the Springfield newspapers, too, the city's war needs could not have been met to the degree that is told of in this report.

GIFTS.

From the very beginning of the history of the Committee on Public Safety it has been the means through which a stream of patriotic expression has flowed steady and deep. Even by those who have been most intimate with the Committee's work, the aggregate of service which has been given to the Great Cause cannot be fully appreciated. Demands, which, if met at market rates, would have required an expenditure of thousands of dollars, have been responded to without price. For example, motor car service contributed in conveying the State Guard to and from Barre at the

time of the influenza epidemic has been estimated at a value of more than four hundred dollars. This instance is one of a long series of days' work which has sprung out of the patriotism of the citizens. Indeed, under the Committee's leadership, so many gifts in money and material have been bestowed upon the city that it is impossible to make even a rough estimate of their equivalent in dollars. Around the multitude of activities of the Committee has been associated a great company of volunteer workers who have placed in the Committee's hands invaluable and continually repeated labors. All of these gifts have made the response of the city to the call of the times both rich and wonderful.

REPORTS FROM THE SUB-COMMITTEES.

With the ready response available from its sub-committees, the Committee has been able to reach a degree of usefulness to the city which is apparent from the statements which follow. The contribution of each sub-committee to the "grand total" of the work accomplished during the year by the Committee on Public Safety is set forth under the appropriate titles.

AMERICANIZATION.

MAJOR FREDERICK J. HILLMAN, Chairman.

KIRK N. WASHBURN, Vice-Chairman.

Early in the year the Committee on Public Safety became convinced that some attempt should be made to impart to the foreign-born of the city not only the ability to read and write the English language, but also something of the American viewpoint. Competent military authority gave the Committee the assurance that this kind of work is especially desirable in the preparation of men for the army. Accordingly, in March, the Committee invited George W. Tupper, Ph.D., of Boston, an expert, to deliver an address on methods which have proved successful in Americanization. A few Springfield people who have had experience with Americanization problems also heard Dr. Tupper's address. After further consideration and consultation with local advisers, the Committee on Public Safety decided to request the Mayor to appoint a Committee on Americanization. This was done, and in June the Americanization Committee adopted the plan of procedure formulated after a conference with committees of the Chamber of Commerce, which had been at work upon this same problem. In general, it was agreed that the most practical solution was the carrying out of an educational program with the foreign-born in Springfield. The School Committee gave its approval to the

method chosen, which provided for the selection of a director of this work in the city. His salary was to be cared for temporarily by the Committee on Americanization until such time as the School Board could secure his appointment as a school principal. The man acceptable to both the Committee and the School Committee has been unable, up to the present time, to accept the responsibility. It is hoped, however, that in the near future, his services will be available.

BOYS' SERVICE.

KARL R. HAMMOND, Chairman.

On account of the fuel shortage, the boys under the direction of this Committee did not meet for drill during the winter of 1918. They have, however, lent ready assistance to the Committee on Public Safety and the Red Cross, helping when needed with the distribution of posters, etc. In the spring, because both organizations included the same people and because the majority of the members of the Boys' Service League belonged to the Scouts, the Committee on Boys' Service decided that the Boy Scouts could better serve the city than the Boys' Service League alone. For that reason also the drilling of the boys was intrusted to the Scouts. In the late winter, in order that the boys might be encouraged to maintain gardens during the season, the Committee on Public Safety made a loan of one hundred dollars to the Committee on Boys' Service. Through this means the boys were able to purchase their supply of seeds at a fairly low price, and in due time to produce about a thousand dollars' worth of food. The loan was later returned to the city.

Throughout the year there has been a close co-operation between the members of the Committee and other organizations of similar character, namely, the Boys' Club, Boy Scouts, Hampden County Improvement League, and the boys' department of the Young Men's Christian Association. In this way duplication of work has been avoided, and the sub-committee on Boys' Service believes that it has been wise in its approval of this co-ordination of work. At the same time, however, it is convinced that the practice of drilling boys during the year 1917 is responsible for the ingathering of a large number into the more permanent organizations of boys.

BUSINESS CO-OPERATION.

WALTER L. MULLIGAN, Chairman.

The Committee on Business Co-operation has "during the past few months kept in close touch with the representatives of the Chamber of

Commerce and the Retail Merchants' Association, and has stood ready to render any assistance within its jurisdiction. This committee might also be of assistance in connection with the distribution of labor after peace is declared."

Ralph W. Wight of this Committee died early in the year, and has been greatly missed by the other members of the Committee.

COMMUNITY SINGING.

ROBERT F. DAY, Chairman.

As the Great War drew near its close, there grew up in the country a widely accepted plan of community singing. Accordingly, late in the present year, at the suggestion of the Committee on Public Safety, the Mayor appointed a sub-committee on Community Singing. Almost immediately following its appointment the influenza epidemic arrested all public gatherings. Nevertheless one successful meeting was held at the Central High School assembly hall. On the evening of November 12, when the city was celebrating the signing of the armistice at the "Victory Rally" in the Auditorium, John F. Ahern, whom the Committee had appointed director, led the audience in songs adapted to express the enthusiasm of the people. Now that peace will doubtless be proclaimed this Committee is likely to take up the important work of training a Victory chorus to prepare for the festivities attendant upon the homecoming of the troops.

FOOD PRODUCTION AND CONSERVATION.

HARRY G. FISK, Chairman.

It has seemed very strange to our people that there should ever be food restrictions in this country; but the necessities of the war situation made this one of the most important emergency measures into the practice of which all of the people must enter. For this reason it has been imperative that food production and conservation should be emphasized to the extreme. So it came to pass that the Committee has expended the majority of its appropriation upon this department of its work, and for its prosecution has enlisted a very large number of volunteer helpers. The sub-committee in this department reports:—

"Early in the year this Committee requested that the Women's Committee of the Committee on Public Safety assume control of the conservation end of the work in the city. Working in conjunction with our

Committee, the Women's Committee has carried on a most efficient and effective campaign on conservation in the four food centers, and has had the assistance of two representatives of the Urban branch of the Department of Agriculture. The production of food, therefore, has been the work to which this Committee has devoted its time and endeavor.

"One garden supervisor and one assistant were employed, who, with a representative of the Park Department assisting at the Forest Park plot, have supervised the garden work throughout the city, with the exception of the school gardens, which have been cared for by representatives of the Hampden County Improvement League. In addition to the plots which were cultivated last year, namely, the Forest Park, Springfield Hospital, Connecticut Valley Realty Trust, Massasoit Realty Trust, a large plot on St. James Avenue was leased and practically every garden lot in it cultivated. Our supervisors have rendered assistance or have actually supervised in many cases 320 home gardens, 1,000 community gardens, 200 factory gardens, and have operated two demonstration gardens.

"The interest shown by our citizens in 1917 was, as a result of our work, materially increased over that of previous years and in 1918, as a further result of the work, there appear to be 150 more acres under cultivation, or an increase of approximately 1,200 gardens. As to the crops, practically 95 per cent of the acreage was employed in raising food which could either be stored or canned for winter use, and of the total acreage 50 per cent was planted with potatoes, 15 per cent with corn, 20 per cent with beans, and 4 per cent with root crops. While an accurate statement cannot be made as to the value of all of the crops raised upon the gardens under the general supervision of this Committee, it has been roughly estimated at from ninety to one hundred thousand dollars. The actual results obtained, due not only to better supervision and to experience on the part of the gardeners, have been much better this season than last. In addition, of course, it must be stated that these results are also in part due to the fact that the land benefited by the cultivation of a year ago, and that the plots under the direct control of the Committee were properly cultivated and fertilized before planting this season.

"With the signing of the armistice and the information received from the Agricultural Department to the effect that the work which has been carried on by this Committee will be taken care of by that department, the Committee has stopped all expense and work in connection with food production. As of December 1, the food centers have been closed, the equipment turned over to the City Property Committee, and the services of the supervisors dispensed with."

FOUR-MINUTE MEN.**CHARLES L. YOUNG, Chairman.**

It has been the universal experience that there is no better method of getting important things considered than through the power of the voice of earnest men. The Committee of Four-Minute Men has devoted an immense amount of time to its appointed task. The necessary publicity concerning liberty bonds, food conservation, registrations, fire protection, the war chest, and messages from France and England have been brought to public attention by the Four-Minute Men. These addresses were delivered at theaters, churches, schools, manufacturing establishments, and business houses. All of this work was done "with a spirit of true patriotism."

FUEL.**EDWIN A. CARTER, Chairman.**

In 1917 on request of State Fuel Commissioner Storrow the Committee on Public Safety nominated the Fuel Commission of this city. The nomination was accepted and the Commission appointed. Until October of the present year the expense of the office of the Commission had been borne by the chairman. Inasmuch, however, as the mission of the Commission is as wide as the city itself, the Committee on Public Safety suggested to Mayor Stacy that he appoint the members of the Fuel Commission as a sub-committee of the Committee on Public Safety, to be known as the Fuel Committee. This the Mayor did, and under the new relationship the Committee on Public Safety was able to furnish the Fuel Committee needed office room and an assistant, so that at all times the people of Springfield might receive necessary help with their fuel problems.

HOME DEFENSE.**COLONEL JENNESS K. DEXTER, Chairman.**

In July at the suggestion of its chairman the sub-committee on Home Defense was discharged and abolished. This action was taken because the need for which this Committee was appointed had passed and its duties had been assumed by the local companies of the State Guard.

MEDICINE, HYGIENE AND SANITATION.**EVERETT A. BATES, M.D., Chairman.**

This sub-committee has "from time to time considered and discussed letters and literature submitted to us through His Honor the Mayor, and

from the Committee on Public Safety, relative to civilian co-operation in combating diseases menacing more especially our social system, our army, and our industrial effectiveness.

"This led to a critical survey of the conditions obtaining in Springfield, and an estimate of the activities necessary as suggested by the correspondence submitted.

"It may be said that Springfield has been gratifyingly free from the alarming and serious possibilities called to our attention by the executive secretary of a sub-committee of the Council of National Defense. Your committee gave its support to a House Bill providing for the regulation of lodging houses and hotels, to the establishment of dispensaries for the combating of disease, to the disposition of educational material among the employees of industrial organizations, and to the ocular demonstration to our male citizens of the dangers in disease as portrayed upon the screen in 'Fit to Fight.'

"It has been called upon during the recent alarming epidemic of influenza and pneumonia to consider, with our efficient Board of Health and District Health officer, rational and necessary means of co-operation; data was provided the Board of Health showing the expansion capacity of our hospitals, the actual number of beds available, the possibility of emergency increase, and the equipment on hand and needed for expansion; a canvass was also made of all business houses in Springfield, and their ability to furnish beds, cots, and bedding, and the actual cost of such material. A committee was also appointed to organize a volunteer nurses' corps and to ascertain the number of nurses available.

"The problems incident to a state of war are naturally at least 80 per cent Health Board problems, and it has been the aim of your Committee to assist when necessary, rather than supervise."

MEN'S MOTOR SQUAD.

RAYMOND A. BIDWELL, Esq., Leader.

During the height of the demand upon the Motor Squad, which was organized under the direction of the Women's Committee, it became apparent that it would be necessary to organize a men's division of Motor Squad service. This was accomplished under the leadership of Raymond A. Bidwell, Esq., and on several occasions it has rendered indispensable assistance to the important mission of the Motor Squad, such as the transportation of State Guards and agents of the Department of Justice.

SOCIAL WELFARE OF SOLDIERS.**FRED R. BROWN, Chairman.**

From the Committee on Social Welfare of Soldiers has come this year various activities which have produced notable sums of money for soldiers' welfare work. On February 5, this Committee by means of a public dance raised \$1,200 for the Hostess House and soldiers' athletics. It has assisted in the raising of the 104th Regiment Fund and the fund for the soldiers' welfare camp activities.

TRUCKS AND MOTOR CARS.**SAMUEL F. PUNDERSON, Chairman.**

This Committee was organized "to cope with the transportation problem in case of an emergency, such as invasion, insurrection, or conflagration. No occasion for use of these cars has arisen during the year."

WAR HISTORY.**EDWARD A. HALL, Chairman.**

The sub-committee on War History is still collecting with great care a complete detailed record, arranged chronologically, which will display the wonderful part Greater Springfield has taken in the War. This form of activity was planned by the former chairman, the late Charles H. Barrows, Esq. The historical matter which the Committee is gathering includes newspaper clippings, letters from overseas, various facts about individuals in the naval and military units, description of Liberty Loan, Red Cross, War Chest and other drives, lists of soldiers, sailors, and war workers of both sexes, details concerning nurses, speakers, entertainers, ambulance drivers, the work of rehabilitation of French villages, the care of war orphans, the collection of clothing and supplies for war victims, general achievements by local Red Cross, Knights of Columbus, Elks, Masons, Young Men's Christian Association, and other organizations and benefit orders; the collection of pictures, including photographs of war activities, portraits of individual soldiers and sailors, groups of recruits and draftees, patriotic parades and pageantry, a collection of sets of posters, placards, and accounts of meetings, specimens of locally composed music and war verse. At the close of the year the Committee is carefully preparing and arranging its material, at the same time feeling deeply sensible of the magnitude and importance of the task set before it.

The Committee on Public Safety was saddened at the sudden death of the chairman of this Committee, Charles H. Barrows, Esq., and recognizes

the obligation of the entire community for the intelligent enthusiasm with which he planned the work of the War History Committee. Agreeable to the choice of the remaining members of the Committee, the Mayor has appointed Edward A. Hall successor to Mr. Barrows.

WOMEN'S COMMITTEE.

Mrs. FREDERICK J. HILLMAN, Chairman.

Mrs. Alfred J. Carroll.

Mrs. Frederick Harris.

Mrs. Arthur C. Dutton.

Mrs. Walter L. Mulligan.

Early in February, 1918, at the suggestion of the Committee on Public Safety, the Mayor appointed a Women's Committee, "to register and organize the women of the city in war emergency work." This Committee was given authority to appoint sub-committees and to determine their duties. The Women's Committee came to this task with such zeal and with such a degree of efficiency, acquired in experience in similar war work, that they have not only brought to pass remarkable results, but their enthusiastic labors have continued unabated throughout the year.

"A considerable part of the work which the Committee has been called upon to do has been in connection with the various nation-wide campaigns. In March, the Hampden County Chapter of the American Red Cross turned over the soliciting and collection of 40,000 pounds of clothing for the Relief Commission in Belgium. Advertising arrangements and other details were in charge of the Committee. Two telephones were in constant use from early morning until late evening for two weeks, including Sundays, receiving calls from persons who wished their donations called for. This collecting was done by the Motor Squad, with the assistance of trucks and automobiles contributed by patriotic citizens. The amount collected far exceeded the quota asked.

"The soliciting and collecting of the second drive was also turned over to the Committee. As part of the advertising, a large sign was placed on Court Square, hundreds of posters distributed, letters sent to schools and churches, and twenty tons of clothing had been collected when the campaign was interrupted by the influenza epidemic.

"In response to a request made by the Assistant Secretary of the Navy in March, the Committee took charge of the local collection of opera glasses, binoculars, telescopes and camera lenses, to be used as 'eyes for the Navy.' Certain stores were designated as collection centers, and the glasses contributed were examined and shipped to headquarters at Washington.

"Co-operating with the War Chest Committee, the Committee furnished for the drive 18 captains, each with a group of 10 workers. Thirteen captains were furnished the Third Liberty Loan Committee, each with a team of 10 members.

"The Committee has also been the official collector of phonograph records and machines for the boys in service. The matter was given much publicity, and about 3,000 records have already been forwarded to the national collection headquarters in New York City. Department and music stores are co-operating with the Committee, and as the time for collection has not yet expired, indications point to a large total.

"A representative from this Committee was appointed to serve on a committee which was being formed to carry on locally work that is being advocated by the Division of Social Hygiene of the Commission on Training Camp Activities. Its immediate object was a Health Week, which was held in Springfield in October.

"At Pratt Field on April 20, under the auspices of the Committee on Public Safety, a Military Tournament was given by the United States troops stationed at Springfield Armory. The proceeds went to the 104th Regiment Fund. Details of the tournament were worked out by this Committee in co-operation with the officers in charge of the troops. Athletic events and military drills were the features of the program. The chairman of the Committee on Public Safety presented a silver cup to the winning baseball team, and other prizes, including three wrist watches, fountain pens, and comfort kits were donated by various members of the Committee. Through the Mayor the Committee presented a flag to the regiment at the Armory to be used as a Post Flag.

"On September 3, a letter was received from the Gas Defense Division, Chemical Warfare Service at Washington, asking the Committee on Public Safety to organize methods of saving carbon-producing material for gas masks. This request was turned over to the Committee. Slides advertising the need were thrown on the screen at the moving picture houses, publicity was secured through the newspapers, and, with the approval of the School Department, a letter was sent to the principal of every school, enlisting the aid of the children. As a result large quantities of shells and pits were collected from the schools, hotels, and restaurants, and from barrels placed in public places. This work was continued until the cessation of hostilities.

"The Committee was asked by the chairman of the War Savings Stamp Committee to distribute W. S. S. electrotypes to local advertisers. They have been very generous in their use, the electrotypes having appeared in

the local newspapers, theater and music festival programs, and in a circular sent by a publishing house to 35,000 subscribers.

"The Americanization parade on Independence Day was carried out in a manner suggested early in June by this Committee to the Independence Day Committee. The members of the Committee and sub-committees, including Canteen, Clerical Corps, Military Drill Corps, and Food Conservation, were in line. The Food Conservation Committee had a float showing canning and bread-making, and about 100 women representing this Committee alone marched in Hoover uniform. Members of the Grand Army of the Republic were the guests of the Motor Squad, which had a number of cars in line.

"Plans were well under way for a patriotic meeting and food rally to be held on October 10, including a round table talk in the Mahogany Room in the afternoon, and a patriotic rally in the evening, open to the public, with Newell Dwight Hillis, D.D., as speaker. This meeting could not be held on account of the influenza epidemic.

"Perhaps the most important work of this Committee has been in connection with the organization and planning of the food conservation work in the city, the details of which were later carried out under its sub-committee, the report of which will follow.

"The Committee was requested by the Municipal Market Committee to arrange publicity to bring the market to the attention of the public. A bulletin was prepared, and 10,000 copies were distributed through the food conservation district committees. Large signs were placed on Court Square advertising the assistance in canning and dehydrating which could be secured at the food conservation centers.

"At the request of the historical branch, War Plans Department, Washington, the Committee has very recently taken up the collection of photographs showing the important phases of war activity in Springfield. These photographs are desired for the national pictorial record of the war. The Committee promptly enlisted the co-operation of all the commercial photographers of the city, who have promised their assistance. It is planned to secure three copies of each picture, one set to be sent to the War Plans Department, one for the Mayor's library, and the other to be preserved for the citizens of Springfield, probably in the Springfield Room at the City Library. As this request was not called to the attention of the Committee until November 15, the results cannot yet be given, but indications point to a splendid pictorial representation of civic celebrations and campaigns, as well as simple home work.

"One of the most valuable pieces of work which the Committee accomplished was in connection with the recent influenza epidemic. When

Springfield found itself confronted by this serious emergency, the sub-committees of this organization hastened to the relief of the people. Whole households were stricken at once, and in many homes the house-keeper was ill and children were suffering for food. The Food Conservation centers were turned into diet kitchens, where members of the Canteen and other volunteer helpers prepared food for invalids and convalescents, under the direction of the city leaders. All the distribution was done by the Motor Squad. In Indian Orchard, where conditions were severe, hot lunches were served at the Food Conservation center to the nurses, which proved valuable in keeping them fit for service. It has been said that the work of this Committee during the epidemic was without question responsible for the alleviation of much suffering and even the saving of lives.

"The merchants, newspapers, churches, school department, moving picture houses, libraries, and the street railway company have at all times been willing and ready to extend their co-operation. Through these agencies the Committee has secured the publicity so essential in arousing public interest and enthusiasm.

REGISTRATION.

MRS. JAMES HALE, Chairman.

"Registration of women for war work has been carried on in the office, as well as at the Food Conservation center and branches. With this list at the command of the Women's Committee, it has not been a difficult matter to secure volunteer helpers for food conservation, clerical, and emergency work. The willing response of the women called upon has been a convincing demonstration of the earnest spirit in which the women registered.

FOOD CONSERVATION.

"In October, 1917, several meetings were held for the purpose of organizing work in the city along the lines of Food Conservation. Mr. Harry G. Fisk, chairman of the Committee on Food Production and Conservation, and Miss Antoinette Roof, state leader for home demonstration work in cities, representing the United States Department of Agriculture, were present. Mrs. Margaret R. Olney, who carried on the conservation work during September, under the direction of Mr. Fisk's Committee, was appointed as a home demonstration leader (urban) by the

States Relations Service of the United States Department of Agriculture, and Miss Frances J. Brainerd was appointed in a similar capacity.

"The city was divided into food districts, using the natural boundary lines of race segregation, school district boundaries, and ward lines. Every district had a committee, with its own chairman, each being a sub-committee of the Food Conservation Committee. The idea was to organize the districts so that each was an active unit more or less independent in its initiative, but coming for advice, counsel, and help to the central committee on food. The bases for organization were:—

Leading organizations.

Churches.

Races.

Community or neighborhood groups.

Persons interested in the special problems of the district.

Pupils and teachers.

"Each district had a center for meeting and demonstration as follows:—

1. North End District: centers, Food Conservation Branch, 56 Main Street; Chestnut Street School; Armory Street School.
2. River District: center, Food Conservation Branch, 330 Water Street.
3. South End District: center, Forest Park School.
4. Forest Park District: center, White Street School.
5. Central Street District: center, Central Street School.
6. Eastern Avenue District: center, Union Street School.
7. Buckingham District: center, Buckingham School.
8. Indian Orchard District: center, Food Conservation Branch, 170 Main Street, Indian Orchard.

"This form of organization continued until February, 1918, when food production activities increased to such an extent that it seemed advisable to turn the work of food conservation over to the Women's Committee under the general supervision of the Committee on Food Production and Conservation.

"Beginning promptly in October, 1917, meetings and demonstrations were held in the centers of each district, working in close co-operation with the Food Administration along the lines of conservation of wheat, fats, sugar, use of meat substitutes and cottage cheese, and increased use of milk and potatoes. During December, the work in the schools and demonstration centers was interrupted because of the fuel shortage, and a vacant store at 164 State Street was loaned. This experiment proved the need of a centrally located demonstration center, and a report with plan for the work outlined was presented to the Committee on Public Safety

with the result that the store was rented, and a Food Conservation center established.

"On February 11, a Victory Bread Shop was opened in the Food Conservation center. A baker was hired, and the remainder of the work carried on by volunteer assistants. Opened on the day the "50-50" wheat regulation went into effect, the bread shop was an instantaneous success, and at the end of the first week was selling daily 180 loaves of bread and 25 dozen rolls. Demonstrations were given showing how the same recipes could be used by the average family.

"The work of the Food Conservation center increased to such an extent that a manager and assistants were necessary. On March 18, Mrs. Alfred B. Morrill was made manager, and an information and telephone department established. The center was also used as working headquarters where experiments were carried on and recipes tested. Government bulletins and literature were distributed. An evening demonstration was given to the retail grocers of the city on the use of wheat substitutes.

"During the fuel shortage a campaign was carried out and instructions given for the construction and use of a homemade fireless cooker. Thousands of recipes were distributed for wheatless breads, cakes and muffins, the printing being done by a duplicating machine at the center. Three thousand sugar cards were distributed for the local food administration, and a careful record kept of the names and addresses. 'War Day' was observed at the center and branches, which were later established, by setting aside Tuesday of each week for canning fruits and vegetables donated for the benefit of Springfield soldiers and their families. A box of these jellies was sent to the Armory Guard hospital during the influenza epidemic, and further distributions will be made. Over 300 quarts were canned for this purpose at the main center.

"In June and early July three canning demonstrations were held each week, as with the new sugar regulations there was much to learn. In all demonstrations of fruit canning the proportion of four parts water to one of sugar was given, except in the canning of very acid fruits. The making of fruit butters and war jam was demonstrated in which very small amounts of sugar were used. The canning of vegetables was very popular. Canning and drying increased as the garden produce began to mature. The main Food Conservation center kitchen was not particularly well adapted for doing a large amount of canning; however, Professor Meier of Framingham called early in June and suggested some changes which were very helpful. Mrs. Burnham, the state leader in canning and drying, visited the center several times, and the exchange of methods and practical knowledge was of great assistance. Mrs. Burnham felt that there was a

need in Springfield for a canning and dehydrating plant similar to those established in other cities. It was agreed, however, that by carrying on canning work at the center and branches the educational value was much enhanced, while the combined canning capacity was greater. The total amount canned was 1,650 cans. Much of the canning at the center was done to order.

"Several men came in to get help on making drying apparatus for home use. Requests for canning information averaged 15 a day during the busy time.

"The Victory Bread Shop continued until the 80 per cent wheat regulation came into effect, when it was felt that it was no longer necessary. The bakery was therefore discontinued on October 12, after a most successful existence, both financially and from the conservation point of view. At this time the influenza epidemic began to rage in Springfield, and the activities of all the supervisors were centered upon the important problem of providing food for the sufferers and for families where the housekeeper was stricken. Gruels, soups, and broths were prepared, and later a large amount of convalescent foods, such as junket, custard, rice pudding, etc. The total output was 1,060 quarts of food and 41 full diets. Volunteer helpers and members of the Canteen Corps assisted in the preparation, and the distribution was accomplished by the Motor Squad and Ernest E. Tucker, garden supervisor. Meals were sent out to nurses, ten being sent one Sunday during the height of the epidemic at an hour's notice. Midnight lunches were prepared for about 17 nurses sent out by the Union Relief. Upon the establishment of the emergency hospital at Forest Park much food was sent to the diet kitchen there, and this was continued until the camp was closed. All this relief work was done in co-operation with the Visiting Nurse Association and the Board of Health.

BRANCH NO. 1.

"On April 9, a basement room was loaned at Indian Orchard, and shortly after a more commodious center was secured at 170 Main Street. As a large proportion of the people in this section are foreign-born, it was necessary to use interpreters. The confidence of the people can best be gained through the children, and the work of the girls' canning clubs was therefore one of the most important features at this center. American, English, French, Polish, and Scotch people were represented at the demonstrations. The district nurse was very helpful. Conservation bread and rolls were sent daily from the center and sold. The work at this branch

was supervised by Mrs. R. D. Hawkins, with the assistance of a volunteer women's committee.

"The membership of the girls' canning clubs during the summer averaged 41, and 1,474 jars of fruits and vegetables were canned. More than half of these girls represented families where canning had never been done. At the close of this work an exhibit was held and prizes awarded by the Committee on Public Safety and the State of Massachusetts. The average score for the exhibit was 92.

"Demonstrations were given of the cold pack method of canning. A Conservation Club was formed by 35 women, who, after regularly attending the demonstrations, made and exhibited over 30 kinds of wheatless foods. These were sold and the proceeds turned in to the War Fund.

"Emergency work during the influenza epidemic consisted of making broths for the sick, and preparing and serving at cost hot noonday luncheons to the nurses and assistants in Indian Orchard, the average during three weeks being five nurses a day. This service was of great assistance in keeping up the health of the nurses, as there was no place where a suitable luncheon could be secured. The Indian Orchard nurses, it is said, kept the best fit for service of any of the nurses, although the conditions there during the epidemic were most trying.

BRANCH No. 2.

"In May plans were made for the opening of a food conservation branch in the River District. It was formally opened at 330 Water Street on May 21. Miss Frances J. Brainerd was made supervisor of this branch, with a paid assistant who acted as manager and interpreter. This branch served as a center for the Italian, Greek, colored, and French residents of the district. A committee of eight, consisting of five Italian women, one Greek, one French, and one colored woman, had charge of the work. Much discretion had to be exercised not to arouse the distrust of the people, and a girls' class was therefore formed, meeting once a week, following a simple course in home economics and food conservation. These girls also sold the products of the Victory Bread Shop before the branch was opened. The mothers approved of the instructions and began to accompany their daughters. Regular demonstrations were held twice a week, some of the subjects being wheat substitutes, cottage cheese, etc. On July 18, the branch became a community canning center where women brought fruits and vegetables, jars and rubbers, and were taught to can by the cold pack method. This work was very popular. The manager of the branch was in charge each day with two volunteer helpers to give

assistance and instruction. String beans, Italian beans, tomatoes, and mushrooms were canned in amazing amounts. The sugar question took care of itself, for very little fruit was canned, and practically all without sugar. War Day canning was done by members of the girls' club, and 118 jars were filled for the soldiers. A total of 2,160 jars were canned at the center during the season. A great deal of drying was done, especially of corn. Large quantities of tomato paste and some fruit butters were made.

"A report of the food conservation work in Springfield would not be complete without mention of the work done at St. John's Parish House (colored). Demonstrations were given at the parish house all winter by Miss Brainerd and by Miss Shepard, the pastor's assistant. The interest of this food study group was strong enough to hold over to the summer, and resulted in the formation of another community kitchen at the parish house. Meetings were held once a week, and during the height of the season the kitchen was open twice a week. During the season, 1,446 jars were canned, 200 being set aside as a War Day contribution.

BRANCH No. 3.

"A branch food conservation center at 56 Main Street opened May 17, with a demonstration by Mrs. Harriet Darling, a state leader. Many nationalities are represented in this district, including Armenians, of whom there are about 400; Finns, about 200; a few French; Greeks, about 1,200; Lithuanians, about 300; Russians, 100; Syrians, 600; Swedes 1,500; Turks, 200; Jews, 6,000. Besides these are many Irish families and colored people. They had not taken advantage of the facilities offered at the center, and there was the greatest need for the teaching of the use of substitutes. Therefore daily demonstrations were held and gained large attendance. Mrs. Margaret R. Olney acted as supervisor at this branch.

"Victory Bread Shop products were sold at this branch also.

"A very thorough garden survey was made in the North End. Canning demonstrations were started early, and girls' canning clubs organized. Women of nine foreign nationalities learned to can. The educational side was emphasized, and each day's work was a demonstration. Twenty women were often present following each step of the process. A great many men came to this branch for bulletins and instructions. A special demonstration was given three men one evening, who were much interested in preserving the products of their gardens. A fireman from a near-by station spent his spare time learning to can. The total amount canned

at this branch was 3,598 quarts, of which 382 quarts were contributed to War Day.

LIBRARY EXHIBITS.

"A number of exhibits covering a wide range of conservation subjects were arranged at the main library and branches. A brief mention might include the following: display of authorized wheat substitutes; construction and use of homemade fireless cooker; wheatless foods; substitutes for fat; uses of milk; cottage cheese dishes; potato products which could be used as wheat substitutes; preparations for canning and drying. Women in Hoover costume were in attendance to answer questions, make explanations, and give help and recipes. Records kept by these attendants show that 1,200 women received definite help.

NEWSPAPER WORK.

"Through the local newspapers publicity was given to the rulings of the Food Administration, and especial care was taken to make the articles timely and up-to-date. Three articles appeared regularly each week, with occasionally an extra feature or series of recipes requested by readers. There is ample evidence that these lessons were carefully read and the recipes used.

WINDOW DISPLAYS.

"The opportunity of stimulating interest by means of window displays was taken advantage of early in January, and a number of timely exhibits were arranged by Mrs. George F. Dalton and Mrs. Charles L. Baird. Some of the more notable displays were the Milky Way to Victory, the Humpty-Dumpty Man emphasizing the increased use of potatoes, Happy Jack illustrating the balanced ration, display of dried vegetables showing the small storage space required, Jack Frost illustrating winter storage of vegetables, heap of peach stones for gas mask carbon, and an appeal for phonograph records for men in service. Exhibits were first shown at the main Food Conservation center and passed in turn to the branches. Original exhibits of canning or other special features were also shown at the branches, the River District, for instance, featuring placards printed in Italian.

"Other interesting features of the work of the Food Conservation Committee as a whole deserve perhaps brief mention. A wheatless, butterless, and meatless luncheon was served March 29 to 80 members of the Rotary Club. The luncheon was prepared by the home demonstration agent and the manager of the bread shop, and served by the Canteen.

A joint Liberty Loan and Food Conservation rally was held April 7 in the Auditorium, co-operating with the Jewish organizations, B'nai Brith and Young Women's Hebrew Association. It was at this meeting that plans were first made for a food conservation center at the north end.

"A special extension course for training assistants in canning was held at the main Food Conservation center in April by experts from the Massachusetts Agricultural College.

"Letters were sent to grocers offering assistance in instructing customers in the use of substitute flours, and recipes were left at the stores for distribution. This co-operation was much appreciated. A booth was exhibited at the convention of the Massachusetts Retail Grocers' Association demonstrating wheatless foods, and recipes were distributed.

"During the whole period of Food Conservation activities, we have had the help and advice of Miss Antoinette Roof, Emergency State Home Demonstration Agent (urban), whose inspiration and assistance are hereby acknowledged with deep appreciation.

AMERICANIZATION.

Mrs. R. DEWITT MALLARY, Chairman.

"This committee was carefully appointed under the chairmanship of Mrs. R. DeWitt Mallary, and its personnel is particularly well adapted to the important work of Americanization, as it includes a librarian who has a fund of valuable knowledge gained through practical experience, a social worker who is in constant touch with the foreign-born Americans, a public school teacher, and others of wide experience. It is needless to enlarge upon Mrs. Mallary's ability in this particular line—the foreign-born women implicitly follow her suggestions, and gladly demonstrate their affection for her. Mrs. Mallary has had a desk at the North End Food Conservation branch, and her presence there has proved of mutual benefit, as it secured the confidence and interest of the women in food conservation work, at the same time aiding Americanization. A goodly share of work was also accomplished through clubs already organized.

"This sub-committee has now been added to the men's Committee on Americanization, and the whole transferred to the Chamber of Commerce.

CANTEEN.

Mrs. WALTER L. MULLIGAN, Chairman.

"The Canteen Corps was organized in June, 1917, with 24 members. The first real work done by it was in conjunction with the Committee on

Co-operation with the Military Authorities in September of that year, at the time of the entertaining of 3,500 soldiers from Camp Bartlett. They assisted in serving luncheon to the men at Forest Park and made 2,800 sandwiches in two hours and a half.

"In November, 1917, at the time of the re-organization of the Hampden County Chapter of the Red Cross, the Committee on Public Safety offered the services of the Canteen to that organization for all military work which might come under its direction. At that time the membership of the Canteen was increased to 60, and has maintained that strength ever since. Since March, 1918, the Canteen has served, entirely under Red Cross orders and regulations, 33,000 soldiers in transit, an average of 4,700 a month. They have furnished to the troops thousands of gallons of coffee, sandwiches, smokes, doughnuts and pies, magazines, postal cards, checker boards, playing cards, and several hundred daily newspapers contributed by the *Springfield Union*. Requests have been received from the officers of troop trains for everything from tooth paste to the cashing of a check, and in no case has a want been unsupplied. A call for "Food in Springfield" has never been lost, although in one case coffee and sandwiches for 300 men were delivered and 28 workers reported before the arrival of the train, with only a 40-minute notice. The Canteen has served, white, colored, blind, gassed and insane; calls have come week days, holidays, and Sundays, rain or shine; and at all hours, sometimes as early as 3 A.M. and as late as 11 P.M., and always more workers than needed were willing to respond.

"The Canteen has assisted in serving supper in connection with dances held in the Auditorium under the auspices of the Committee on Public Safety, and in all, this work has saved toward the proceeds about 30 per cent of the gross receipts.

"On July 4, 1918, the Canteen Corps marched in Red Cross uniform in the Americanization parade. One hour after leaving the line a call came for services for five sections, totaling 3,500 men. On November 12 they marched in Committee on Public Safety uniform in the Victory parade, and before one half of the long column had passed the reviewing stand the Canteen workers were on their way to the railroad station with supplies for 100 men.

"At the beginning of the influenza epidemic the Canteen was asked to furnish workers to assist in the preparation of food for the sufferers. Two helpers were furnished each day for two weeks at Indian Orchard, and four each day at the main Food Conservation center. The third week only two were furnished at each place, at which time the work at Indian

Orchard was taken care of by the residents of the section under the direction of Mrs. Hawkins, manager. In all, the Canteen supplied 45 helpers.

"The spirit of co-operation manifested at all hours by local merchants has been very gratifying, and a great stimulus to the Canteen members. The United Electric Light Company has furnished 24-hour service of its telephone operators and it may be interesting to know that after a thorough search of the city it was found that the only reliable source of transportation for food supplies which could be secured 24 hours a day was the above-mentioned company, which has given the use of its vehicles and employees day and night, Sundays and holidays.

"At a meeting of the Women's Committee held November 15 it was decided that, in view of the lessening scope of the activities of the Canteen under this Committee, which would be the result of the cessation of hostilities, the Canteen Corps be transferred to the Red Cross, thereafter doing only Military Relief work under their direction.

MOTOR SQUAD.

MRS. WILLIAM H. SARGEANT, Chairman.

"On February 1, 1918, the chairmanship of the Motor Squad was turned over to Mrs. W. H. Sargeant, together with the names of 25 women who had signed up for Motor Squad service. Realizing that a much larger squad was needed, Mrs. Sargeant set about recruiting, and on June 1 there were 83 active members, 17 emergency and 36 chauffeur-driven cars. The latter were added after an appeal had been sent to 98 car owners, to which there were 36 favorable replies. The work of the Motor Squad was intended to cover any phase of war activity.

"The Motor Squad has furnished the Red Cross eleven cars weekly for regular work, and emergency calls made the average 20 a week. These trips extended all over the city and surrounding towns, such as Palmer, Westfield, Ludlow, Feeding Hills, Southwick, and Hampden. The daily deliveries have required the handling of from 10 to 42 boxes or packages.

"During the first drive for old clothes for the Belgians, the Motor Squad made 1,569 collection calls, and 267 calls had been made on the second drive when it was interrupted by the influenza epidemic.

"Work for the Food Conservation Committee began about April 1. At first the work consisted of taking demonstration exhibits to the library and branches. Later the products of the Victory Bread Shop were delivered daily to the different food conservation branches, and this work was continued until the close of the bread shop in October. Demonstrators were

also furnished transportation from the Food Conservation center to various parts of the city as their work demanded.

"During the Springfield War Chest drive the Motor Squad supplied cars for the speakers and canvassers, delivered posters and advertising matter, etc., answering in all 180 calls.

"On June 1 the Women's Committee offered the services of the Motor Squad to the Civilian Relief, and seven cars a week were sent, each car working two to three and one half hours, and an average of four emergency cars weekly. One call to Granby, Conn., was instrumental in saving the life of a mother and baby. During Child Welfare week, also held in June, five cars were furnished daily for transportation of helpers to and from the schools where babies were weighed and measured.

"During the week of the Sock and Sweater drive at the Red Cross, eight cars were busy daily, delivering materials to knitters. During July six cars were sent out to gather vegetables to be taken to food centers to be canned for War Day. Three cars were sent to the Indian Orchard food center with demonstrators. During the week of July 21 a car was used every day to take Miss Nina J. White, an out-of-town demonstrator of dehydrating and canning, to and from the demonstration centers.

"The following list of calls is interesting, showing the nature and variety of the work:—

June 20-30. Car at noon every day for Sergeant Warwick, British Recruiting Agent.

August 27. One hundred books collected for soldiers.

September 10. Ninety sailors from the Newport Naval Training Station, who were in the city giving a minstrel show, taken around the city.

October 2. Car sent to Pawtucket, R. I., for first aid models for the Red Cross.

October 15. Car to Monson to deliver masks.

November 1-9. Four cars daily to take Day Nursery children from William Street home to Pendleton Avenue and return.

November 8. Car to take Major Hare to Monson.

"During the influenza epidemic the Motor Squad was invaluable, an average of 11 cars a day being placed at the service of the Visiting Nurse Association, from October 1 to November 8. During the same period the Motor Squad delivered 1,038 quarts of broth to 546 families stricken with influenza, and 41 full diets were sent out. Upon the establishment of the open-air hospital at Forest Park, four cars were supplied daily for four and one half hours.

"At the first meeting of the Women's Committee following the signing of the armistice, the Motor Squad was transferred to the Red Cross, as the organization most using their services. At this time two cars were in use

daily delivering and collecting materials for the 71 Red Cross auxiliaries in Springfield, with an average of four emergency trips a week to neighboring towns.

"The work of the Motor Squad is worthy of much commendation, as it has saved time and a great deal of money, and made possible the accomplishment of many tasks which otherwise could not have been undertaken. The Committee has never been asked for any appropriation to cover the expenses of the Motor Squad, as its services have been given entirely free.

CLERICAL CORPS.

Mrs. HARRY E. WEBBER, Chairman.

"The Clerical Corps was composed of nearly 300 experienced stenographers, typists, and bookkeepers, whose services have been available evenings to the organizations doing war work. The corps was divided into seventeen groups of fifteen to twenty members, each group having a director who assembled the girls and directed their work. A letter was sent to every war work organization in the city acquainting them with the nature of the assistance which the Clerical Corps was prepared to render. During the period beginning May 4 and ending November 19, 70 calls for clerical help were answered, and there are on file a number of letters attesting the value and efficiency of the service given.

"The corps took part in all the general activities of the Women's Committee, and marched in the Americanization and Victory parades. On June 14, the members attended in a body the Flag Day exercises of Springfield Lodge, Benevolent and Protective Order of Elks, held in the Auditorium. At this meeting an oath of allegiance to the United States was read by the chairman of the Committee on Public Safety, and pledged by every member of the Clerical Corps.

"It was felt that the work accomplished by this sub-committee warranted a continuation of its existence after the cessation of hostilities, and it was accordingly turned over by the Committee on Public Safety to the direction of the Chamber of Commerce.

RED CROSS WORKERS' COMMITTEE.

Mrs. AUSTIN H. PEASE, Chairman.

"At the request of Mr. Edward S. Bradford, a Red Cross Workers' Committee was formed under the chairmanship of Mrs. Austin H. Pease. The function of this committee is to stimulate the interest of individuals and groups to keep the different departments of the Red Cross supplied with workers.

MILITARY DRILL CORPS.

MRS. CLARA K. BOGARDUS, Captain.

"The Military Drill Corps was formed in May, 1917, by a group of young women under the leadership of Dr. Eoline C. Dubois. The girls received military drill once a week, and were instructed by different lieutenants from the Armory, furnished by the courtesy of the Commandant. After a short summer vacation, the work was taken up with renewed interest in the fall, and drill was held weekly as before. At one time the membership of the drill corps numbered 77 girls. The organization was officered along military lines, having a captain, first and second lieutenants, sergeants, and corporals. When Captain Dubois left to join the United States Medical Corps in France, her place was taken by Captain Clara K. Bogardus, who has since remained leader.

"The Military Drill Corps was formed at the time when "preparedness" was the watchword of the nation, and it was the aim of these young women to prepare themselves through military discipline for whatever service they might be called upon to do. Every Thursday evening a group of the girls, accompanied by one of their officers, worked at the Red Cross. Members of the corps marched in both the Americanization parade on Independence Day and the Victory parade on November 12, making a fine appearance and marching in splendid form. The Military Drill Corps has very high aims and ideals, and a spirit of steadfast loyalty that is most commendable. They hope to be called upon in the future for any service, great or small, having in mind particularly assisting in memorial services.

"By vote of the Committee, and with the approval of Captain Bogardus, this organization was turned over to the Springfield Girls' Patriotic League on November 15, 1918."

FINANCIAL STATEMENT OF THE COMMITTEE ON PUBLIC SAFETY FOR THE YEAR ENDING NOVEMBER 30, 1918.

Balance of Appropriation from preceding year, ...	\$314.50
Appropriation, ...	2,000.00
Appropriation, ...	15,000.00
Appropriation, ...	13,500.00
Appropriation, ...	2,500.00
Credits allowed for re-appropriation, ...	27.55
Total amount available, ...	<u>\$33,342.05</u>

EXPENSES.

Central Office Expenses,.....	\$5,563.61
Food Production,.....	5,518.86
Food Conservation Centers,.....	14,491.84
Boys' Service Committee,.....	112.07
War History Committee,.....	4.30
Coal Distribution and Fuel Committee,.....	2,078.26
Americanization Committee,.....	484.27
Music for Farewell to Soldiers,.....	349.00
British Mission Committee,.....	80.35
Bastille Day,.....	91.00
Memorial Day,.....	65.50
Liberty Loan Flag Raising,.....	79.50
Massachusetts State Guard,.....	3,105.59
Social Welfare of Soldiers,.....	67.00
Four-Minute Men,.....	10.36
Community Singing,.....	72.52
Victory Celebration,.....	416.48
Belgian Drive,.....	16.50
Medicine, Hygiene and Sanitation:—	
Influenza Epidemic,.....	\$620.47
"Fit to Fight,".....	83.86
Health Week,.....	27.15
	731.48
Total Expenses,.....	
	\$33,338.49
Total Appropriations, ..	\$33,342.05
Total Expenses, ...	33,338.49
Balance on hand,...	\$3.56

Amounts turned over to the City Collector by the Committee:—

Sales of bread, etc., at Conservation Centers,.....	\$3,520.51
Returns on Gardens,.....	1,645.69
Sale of Tent,.....	367.00
Sale of Typewriter,.....	30.00
Sale of Prints of Pictures,.....	2.00
Return of Loan by Boys' Service Committee,.....	100.00
Credit allowed War History Committee on Goods,.....	7.05
Reimbursement on Uniforms,.....	16.65
	\$5,688.90

Almost coincident with the signing of the armistice is the close of the municipal year and of the history to be included in this report. In order, therefore, to reduce as much as is consistent with its continued duty to the city, the Committee has transferred certain sub-committees to other

organizations as follows: the Motor Squad and Canteen to the Red Cross; the Committee on Americanization and the Clerical Corps to the Chamber of Commerce; Company A, Military Drill Corps, to the Girls' Patriotic League. The Committee, however, stands ready to undertake whatever responsibility may be necessary to fulfill the purpose of its appointment "during the war and a year thereafter."

Respectfully submitted,

CHARLES H. BECKWITH, *Chairman*,
HENRY H. BOWMAN,
EMBURY P. CLARK,
FRED T. LEY,
FRANK H. PAGE.

JURY LIST.

CITY OF SPRINGFIELD.

LIST OF JURORS, 1918.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Abbe, Fred A.,	382 Hancock st.,	Coal Merchant 30 Allen av.
Abbe, Ralph H.,	64 Scott st.,	Clerk, 350 Main st.
Abel, Orville,	579 Sumner ave.,	Salesman, 499 Main st.
Adams, Clayton Sherwood,	9 Lafayette st.,	Bank Clerk, 407 Main st.
Adams, Henry J.,	278 Center st.,	Mill Hand, Hodges Carpet Co., I. O.
Adams, Walter,	44 Dover st.,	Nursery-man, 30 Dover st.
Adams, William,	71 Dale st.,	Chauffeur, 130 Maple st.
Adams, William G.,	452 Central st.,	Janitor, Acushnet Av. School.
Ahearn, Andrew J.,	448 North Main st.,	Merchant, 448 North Main st.
Albro, William H.,	112 Massachusetts ave.,	Draftsman, Metals Production Co., Plainfield st.
Alderman, Harry M.,	136 Firglade ave.,	Clerk, 46 Harrison ave.
Alexander, Nelson D.,	89 Catharine st.,	Supervisor, 156 Lyman st.
Allen, Arthur F.,	15 Gardner st.,	Clerk, 346-348 Main st.
Allen, Clarence W.,	1401 State st.,	Manager, 20 Cypress ct.
Allis, Robert T.,	43 Virginia st.,	Manager, 33 Lyman st.
Alliss, John,	33 Clinton st.,	Clerk, 30-32 Lyman st.
Almond, Robert,	74 Cherry st.,	Miller, N. E. Westinghouse Co., East Springfield.
Amann, Henry J.,	444 Belmont ave.,	Printer, 377 Main st.
Ames, Herbert L.,	15 Sachem st.,	Clerk, 392 Main st.
Amidon, Edgar H.,	30 Myrtle ter.,	Clerk, N. E. Westinghouse Co., East Springfield.
Anderson, Allen H.,	Fullerton st.,	Electrician, foot of State st.
Anderson, Edmond C.,	122 Amherst st.,	Manager, 111 North Main st.
Anderson, Hans Jacob,	21 Brightwood ave.,	Emery Wheel Maker, 118 Fisk ave.
Anderson, Willis F.,	202 Belmont ave.,	Automobile Dealer, 40 Liberty st.
Andrews, Howard P.,	127 Spring st.,	Help Agent, Ludlow Mfg. Asso., Ludlow.
Angers, Edelmard,	373 Eastern ave.,	Lumber Merchant, 373 Eastern ave.
Anthony, Albert,	14 Adams st.,	Cigar Maker, 32 Hampden st.
Anthony, Charles,	26 Harriet st.,	Cigar Maker, 260 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Appleby, Andrew Howard,	17 Clantoy st.,	Driver, 123 Carew st.
Appleton, Allen L.,	334 Maple st.,	Bookkeeper, 313 Maple st.
Archambault, George C.,	160 King st.,	Motorman, 5 North Main st.
Armitage, Wilfred S.,	758 Carew st.,	Foreman, Taber-Prang Co., Heywood st.
Armstrong, Anson B.,	38 Longfellow ter.,	Salesman, 437 Main st.
Arnold, Clarence H.,	53 Euclid ave.,	Watch Maker, 418 Main st.
Arthur, Malcolm Underwood,	17 Biltmore st.,	Civil Engineer, 23 State st.
Asher, Albert F.,	38 Grosvenor st.,	Candy Maker, 48-50 Main st.
Asher, Henry,	E S Parker st.,	Traveling Salesman, 211-213 Worthington st.
Ashey, William D.,	719 Worthington st.,	Merchant, 10 Boylston st.
Ashton, George A., Jr.,	19 Cortland st.,	Merchant, 19 Cortland st.
Atkinson, Robert F.,	67 Alden st.,	Plumber, 67 Alden st.
Austin, Michael P.,	20 Huntington st.,	Brick Mason, Exposition Grounds, West Springfield.
Avery, James H.,	24 Myrtle st.,	Watchman, 480 Main st.
Avery, Orrin J.,	69 Sycamore st.,	Machinist, 837 State st.
Avery, Robert N.,	82 Oak st.,	Hostler, 469 State st.
Ayers, Uzziel S.,	30 Rochelle st.,	Tool Maker, 837 State st.
Bacon, Clarence N.,	41 Fairfield st.,	Merchant, 53 Hillman st.
Bacon, Frank D.,	80 Northampton ave.,	Teamster, 472 Union st.
Bagg, Henry J.,	14 Forest st.,	Foreman, 292 Main st.
Bagley, John J.,	746 St. James ave.,	Proprietor, 21 Clinton st.
Bailey, Russell A.,	134 Forest Park ave.,	Brick Manufacturer, 310 Main st.
Baker, Clarence A.,	29 Manhattan st.,	Stock Clerk, 211-213 Worthington st.
Baker, Edward R.,	198 Orange st.	Laborer, 705 State st.
Baker, Frank R.,	105 Dawes st.,	Machinist, 837 State st.
Baker, George S.,	68 Wilbraham ave.,	Foreman, Stockbridge st.
Baldwin, Howard M.,	50 Buckingham st.,	Meat Cutter, 457-461 State st.
Balfe, William M.,	52 Loring st.,	Inspector, N. E. Westinghouse Co., East Springfield.
Bancroft, Charles N.,	141 Forest Park ave.,	Traffic Man, 837 State st.
Banister, Charles A.,	202 Oak st., I.O.,	Retired.
Barber, Fred A.,	60 Pearl st.,	Rubber Stamp Maker, 274 Main st.
Barber, John H.,	37 Sargeant st.,	Clerk, 251(A) Main st.
Barber, Walter E.,	42 Barber st.,	Clerk, 837 State st.
Bardwell, Leland F.,	29 Dartmouth st.,	Clerk, 383 Main st.
Barker, Clinton B.,	37 Catharine st.,	Chaufeur, 111 Maple st.
Barker, Winfred W.,	421 Armory st.,	Printer, 381 Main st.
Barlow, Moses M.,	10 Kibbe ave.,	Chaufeur, 234 Pearl st.
Barlow, Walter E.,	82 Malden st.,	Chaufeur, 153 Forest Park ave.
Barnes, Edward G.,	95 Catharine st.,	Superintendent, Street Dept., City.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Barnes, Eugene H.,	6 Geraldine court,	Order Cook, 282 Main st.
Barney, Thomas J.,	18 Butler st.,	Inspector, Fisk Rubber Co., Chicopee Falls.
Barone, Michele,	18 Division st.,	Barber, Highland Hotel, Hillman st.
Barrett, Harry F.,	92 School st.,	Contractor, 318 Main st.
Barrus, Clifton L.,	995 Sumner ave.,	Unemployed.
Barrus, Edward T.,	571 Dickinson st.,	Merchant, 505 Sumner ave.
Barrus, George A.,	47 Rutledge ave.,	Inspector, Fisk Rubber Co., Chicopee Falls.
Barry, James M.,	14 Wilcox st.,	Electrotyper, 279 Dwight st.
Barry, James W.,	653 State st.,	Clerk, 28 Worthington st.
Barry, Michael Richard,	293 Tyler st.,	Carpenter, 328 Main st.
Bartlett, Frank I.,	60 Virginia st.,	Manager, 141 Chestnut st.
Bartlett, George O.,	47 Grenada ter.,	Contractor, 47 Grenada ter.
Bartlett, Lewis I.,	38 Grenada ter.,	Auto Dealer, 147 Chestnut st.
Bartlett, Owen J.,	24 Prince st.,	Salesman, foot Church st., West Springfield.
Bashaw, Edward J.,	30 Hebron st.,	Clerk, 207 Worthington st.
Bassette, Frederick A.,	82 Green lane,	Proprietor, 53 Hillman st.
Batchelder, Ernest E.,	82 Hall st.,	Manager, N. E. Westinghouse Co., East Springfield.
Bates, Clarence A.,	94 Catharine st.,	Motorman, 5 North Main st.
Bates, Ernest G.,	10 Berkeley st.,	Plumbing Inspector, City of Springfield.
Bates, Joseph E.,	15 York st.,	Fireman, 11 Stearns sq.
Bates, Pearl,	66 Crystal ave.,	Rug Maker, 17 Taylor st.
Bath, George W.,	63 Foster st.,	Plumbing Superintendent, 26 Willow st.
Beach, Howard F.,	135 Oakland st.,	Milk Dealer, 135 Oakland st.
Beadle, Fred A.,	180 Maple st.,	Electrician, 499 Main st.
Beamon, William A.,	48 Auburn st.,	Advertising Solicitor, 389 Main st.
Bearg, Benjamin,	46 Huntington st.,	Merchant, 156 Main st.
Beaudry, George L.,	16 Brookline ave.,	Pipe Maker, 278 Chestnut st.
Beaudry, Joseph,	49 Marshall st.,	Painter, 49 Marshall st.
Bechberger, William A.,	86 School st.,	Buyer, Fisk Rubber Co., Chicopee Falls.
Bedard, Eugene,	558 Main st.,	Knitter, 33 Morris st.
Bedard, Philias,	224 Berkshire av.,	Blacksmith, North Main st.
Beebe, Alexander,	62 School st.,	Manufacturer, 56 Quincy st.
Begley, John J.,	170 Pendleton ave.,	Laborer, Street Dept., City.
Belcher, Oliver K.,	88 Northampton ave.,	Traveling Salesman, Rowland ave.
Belden, Herbert T.,	269 Bay st.,	Teller, 241 Main st.
Belding, William C., Jr.,	135 Westminster st.,	Merchant, 457 State st.
Bellamy, Thomas A.,	287 Fulton st.,	Boiler Maker, B. & A.R.R. Shops, West Springfield.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Belton, Charles H.,	97 Cherrelyn ave.,	Wire Weaver, Heywood st.
Bengle, Adeland N.,	156 Main st., I.O.,	Manager, 154 Main st., I. O.
Bennett, Albert G.,	30 Kenwood ter.,	Manager, 387 Main st.
Benoit, Mitchell S.,	72 Armory st.,	Filer, Unemployed.
Benson, William W.,	24 Leyfred ter.,	Manager, 303 Main st.
Benton, Ralph L.,	573 White st.,	Driver, 333 Belmont ave.
Benway, George W.,	163 Tyler st.,	Mill Hand, 837 State st.
Beassette, Clodemire,	178½ Worcester st.,	Carpenter, Westfield Sanitarium, Westfield.
Bickford, Arthur S.,	63 Drexel st.,	Car Inspector, Boston & Maine R.R.
Bigbee, Theodore,	5 Sackett ave.,	Teamster, City of Springfield.
Bigelow, William A.,	849 Main st.,	Gas Maker, Water st.
Bill, Benjamin P.,	116 Fort Pleasant ave.,	Engineer, State and Water sts.
Billings, Henry J.,	7 Hawley st.,	Rug Designer, Hodges Fiber Co., I.O
Billings, Henry J.,	50 Foster st.,	Chaufeur, 302 Maple st.
Bishop, John F.,	117 Orange st.,	Builder, 117 Orange st.
Black, Allen G.,	53 Westford ave.,	Draftsman, 53 Wilbraham rd.
Blair, William A.,	63 Colonial ave.,	Clerk, 195 State st.
Blake, William E.,	44 Buckingham st.,	Treasurer, 56 Tyler st.
Blanc, Neil,	6 Beaumont st.,	Druggist, 728 North st.
Blanchard, Wilfred R.,	372 North Main st.,	Itiney Driver, About the City.
Bletzer, Louis A.,	1160 North st.,	Brewer, Water st.
Bliss, Frederick W.,	48 Bryant st.,	Machinist, 40 Stockbridge st.
Blodgett, Andrew, Jr.,	70 Westford ave.,	Salesman, 130 Lyman st.
Blodgett, Charles A.,	128 Maplewood ter.,	Treasurer, 168 Chestnut st.
Blodgett, Charles A.,	60 Monmouth st.,	Music Dealer, 27 Harrison ave.
Blodgett, Henry,	42 Hampden st., I.O.,	Machinist, Pine st., I. O.
Blood, Herbert L.,	56 Bancroft st.,	Clerk, 34 Main st.
Blood, Walter F.,	243 White st.,	Clerk, 153 Chestnut st.
Boardman, Charles A.,	656 Chestnut st.,	Filer, 156 Wason ave.
Bodurtha, Addison P.,	82 Prospect st.,	Shipping Clerk, 1 New Bridge st., West Springfield.
Bolan, Patrick J.,	416 Wilbraham rd.,	Clerk, 373-375 Main st.
Bond, Charles F.,	26 Mulberry st.,	Agent, 26 Mulberry st.
Bond, Lewis W.,	218 Orange st.,	Manager, 333 Main st.
Bosworth, Arthur H.,	34 Dunmoreland st.,	Purchasing Agent, 500 Main st.
Bousquet, Victor Olava,	50 James st.,	Carpenter, 220 Pine st.
Bowen, Arthur L.,	444 Central st.,	Real Estate Dealer, 444 Central st.
Bowers, Joseph J.,	18 Austin st.,	Machinist, 4 Birnie ave.
Bowler, Maurice,	23 Bartlett st.,	Teamster, City of Springfield.
Bowles, Charles A.,	81 Mulberry st.,	Commission Merchant, 317 Main st.
Bowman, Herbert E.,	90 Westminster st.,	Carpenter, 90 Westminster st.
Boyce, Michael P.,	252 Tyler st.,	Machine Operator, 837 State st.
Boyden, Fred W.,	28 Marble st.,	Merchant, 28 Marble st.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Boyle, James T.,	37 Pine st.,	Foreman, 37 Pine st.
Boyle, William F.,	91 Grenada ter.,	Health Inspector, Municipal Bldg.
Boyle, William P.,	16 Prince st.,	Manufacturer, 12-14 School st., Chicopee.
Bowenhard, Otto C.,	414 Plainfield st.,	Foreman, Bosch Magneto Co., North Main st.
Bosian, Charles Sarkes,	11 Donald st.,	Merchant, 457 North Main st.
Bracken, William,	677 Carew st.,	Shipping Clerk, 23 Hampden st.
Bradley, John F.,	510 Armory st.,	Machinist, 837 State st.
Bradley, Wallace H.,	51 Mountaintview st.,	Manager, 35 State st.
Bradway, Foster H.,	71 Avon place,	Salesman, 119 State st.
Bragg, Henry T.,	41 Gray's ave.,	Chauffeur, 3 Elm st.
Brand, John W. B.,	310 Pine st.,	Barber, 63 Elm st.
Bray, William J.,	38 Chase ave.,	Printer, 53 Hillman st.
Brayton, Henry A.,	101 Acushnet ave.,	Painter, 140 State st.,
Breaky, George M.,	45 Berkeley st.,	Expressman, 45 Berkeley st.
Breck, John H.,	26 Orlando st.,	Hair Specialist, 31 Elm st.
Breck, Martin B.,	138 Catharine st.,	Merchant, 472 Main st.
Brennan, James J.,	48 Grover st.,	Mason Contractor, 48 Grover st.
Brennan, William F.,	50 Montmorenci st.,	Foreman, Spfd. Provision Co., Brightwood.
Breslin, Edward T.,	41 Dresden st.,	Engineer, 283 Worthington st.
Bresnahan, Patrick J.,	1136 North st.,	Stage Employee, 414 Main st.
Brewster, Howard C.,	226 Fort Pleasant ave.,	Salesman, 34 Sumner ave.
Bridgman, Richard C.,	108 Massachusetts ave.,	Salesman,, 108 Massachusetts ave.
Brinkman, Christopher H.,	270 Pearl st.,	Cigar Maker, 439 Worthington st.
Bristol, Andrew M.,	69 Parkside ave.,	Wire Weaver, Heywood st.
Britton, Josiah H.,	33 Holyoke st.,	Unemployed.
Brock, Lyman S.,	43 Warner st.,	Bookkeeper, Plainfield st.
Broderick, George P.,	76 Armory st.,	Taxi-Cab Chauffeur, 241 Worthington st.
Bromley, A. Jay,	59 Palmer ave.,	Carpenter, Unemployed.
Bromley, William A.,	237 College st.,	Foreman, American Wire Wheel Co., East Springfield.
Brooks, Earl F.,	54 Orleans st.,	Elevator Man, Fisk Rubber Co., Chicopee Falls.
Broughton, Leon R.,	28 Terrence st.,	Grocer, 109 Hancock st.
Brown, Barney B.,	40 Ashmun st.,	Foreman, N. Y. N. H. & H. Yards.
Brown, Elbert L.,	21 Daytona st.,	Machinist, 5 North Main st.
Brown, Frank T.,	94 Pearl st.,	Salesman, Fisk Rubber Co., Chicopee Falls.
Brown, Franklin D.,	75 Hampden st., I.O.,	Tool Maker, 331 Dwight st.
Brown, George H.,	132 Malden st.,	Butcher, 535 Belmont ave.
Brown, James, Jr.,	93 Catharine st.,	Salesman, 78 Worthington st.
Brown, Luman S.,	182 Florida st.	President, 317 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Brown, Marvin V.,	1054 State st.,	Machinist, 130 Birnie ave.
Brown, Moses W.,	37 White st.,	Machinist, N. E. Westinghouse Co., East Springfield.
Brown, Phelps,	44 Avon place,	Manager, 132 Liberty st.
Brown, Raymond S.,	78 Florence st.,	Clothing Salesman, 271-273 Main st.
Brownell, Edward C.,	42 Wilbraham ave.,	Coal Dealer, 82 Waltham ave.
Bruce, Merton W.,	1240 North st.,	Carpenter, 123 Carew st.
Brunelle, Alfred,	337 Main st.,	Clerk, 348 Main st.
Brunette, Frank P.,	365 Bay st.,	Painter, 17 Thomas st.
Brunton, James,	579 Liberty st.,	Yard Foreman, 331 Liberty st.
Brunton, Martin J.,	773 Liberty st.,	Roofer, 173 Liberty st.
Bryan, James A., Jr.,	16 Sumner ave.,	Salesman, George P. Clark., Windsor Locks, Conn.
Bryant, Harold E.,	Atwater ter.,	Caretaker, Atwater ter.
Bryant, Henry A.,	25 George st.,	Manager, 111 Lyman st.
Buchan, Robert A.,	168 Thompson st.,	Manager, 451 Main st.
Buck, Frank C.,	59 Princeton st.,	Wire Chief, 283 Worthington st.
Buckbee, Harry D.,	108 Byers st.,	Purchasing Agent, 40 Napier st.
Buckler, Alfred E.,	487 Belmont ave.,	Real Estate Dealer, 356 Belmont ave.
Budd, Hopewell H.,	413 Belmont ave.,	Metal Worker, Sanford st.
Buell, Jared R.,	85 Keith st.,	Laborer, 85 Keith st.
Bugbee, Alfred V.,	67 Virginia st.,	Merchant Tailor, 387 Main st.
Bullock, Horatio V.,	21 Wellington st.,	Commercial Traveler, Proctor & Gamble, Boston.
Bunker, William L.,	22 Florentine Gardens,	Accountant, 318 Main st.
Burbank, Daniel E.,	104 Bowdoin st.,	Real Estate Dealer, 310 Main st.
Burdick, Arthur,	424 Central st.,	Candy Maker, 37 Harrison ave.
Burdick, Eugene,	90½ Walnut st.,	Pressman, 17 Worthington st.
Burger, Charles E.,	93 Park st.,	Sign Painter, 150 Bridge st.
Burke, John J.,	51 Vinton st.,	Auditor, 44 Pynchon st.
Burke, Michael Henry,	91 Roseland st.,	Messenger, 11 Bond st.
Burke, William,	186 Eastern ave.,	Sheet Metal Worker, 837 State st.
Burlingame, Allen,	41 Tyler st.,	Veterinarian, 41 Tyler st.
Burlingham, Harry A.,	114 Washburn st.,	Foreman, 45 Sanford st.
Burnett, James J.,	12 Eagle st.,	Clerk, 292 Main st.
Burnham, George W.,	68 Palmer ave.,	Insurance Agent, 293 Bridge st.
Burns, Robert W.,	249 White st.,	Baker, 30 Walnut st.
Burt, Charles E.,	110 Florence st.,	Printer, 238 Dwight st.
Bush, Bert A.,	73 Central st.,	Painter, 26 Dale st.
Buss, Fred E.,	26 Greenacre sq.,	Designer, 7-51 Worthington st.
Butler, Fred W.,	63 Ventura st.,	Artist, 63 Ventura st.
Butler, George W.,	63 Dunmoreland st.,	Shipping Clerk, 270 Worthington st.
Butler, Tobias J.,	57 Osgood st.,	Chauffeur, 136 Mill st.
Butman, William T.,	852 Belmont ave.,	Traveling Salesman, Hartford, Conn.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Butter, Ralph E.,	15 Mapledell st.,	Buyer, Ludlow Mfg. Co., Ludlow.
Byrnes, John F.,	63 Charles st.,	Electrotyper, 29 Worthington st.
Cabana, George E.,	314 Franklin st.,	Druggist, 298 Franklin st.
Cady, Ozro B.,	10 Sanford st.,	Foreman, Railroad st.
Caffrey, Joseph F.,	51 Middlesex st.,	Foreman, 837 State st.
Call, Arthur A.,	29 Locust st.,	Grocer, 124 State st.
Call, Charles C.,	80 Thompson st.,	Foreman, Stockbridge st.
Callaghan, John B.,	327 State st.,	Editor, 381 Main st.
Callahan, Jeremiah,	129 Ingersoll Grove,	Real Estate Agent, 129 Ingersoll Grove.
Callahan, Michael,	131 Bond st.,	Car Cleaner, Hooker st.
Callahan, Patrick John,	24 Crane st.,	Laborer, City of Springfield.
Callahan, Thomas P.,	333 Franklin st.,	Foreman, City of Springfield.
Calnen, Thomas,	120 Calhoun st.,	Steel Director, 120 Calhoun st.
Canning, Martin,	30 Orleans st.,	Bartender, 17 East Court st.
Cannon, Albert L.,	37 Ozark st.,	Clerk, 540 Main st.
Cannon, John P.,	49 Linden st.,	Claim Agent, 29 Worthington st.
Card, Sidney M.,	106 Chestnut st.,	Compositor, 292 Main st.
Carduff, Alexander D.,	26 Ardmore st.,	Manager, 624 Page blvd.
Carey, Patrick,	226 Armory st.,	Teamster, Heywood st.
Carey, Thomas E.,	36 Orlando st.,	Printer, 284 Main st.
Carey, William E.,	218 Fort Pleasant ave.,	Merchant, 137 Main st.
Carleton, Charles F.,	40 Churchill st.,	Clerk, 500 Main st.
Carlson, Adolf F.,	34 Crystal ave.,	Assistant Superintendent, 160 Wilbraham ave.
Carlton, Leland G.,	71 Kimberly ave.,	Civil Engineer, Municipal Bldg.
Carlton, William R.,	125 Harvard st.,	Auditor, 145 State st.
Carney, Dennis J.,	64 Bay st.,	Chauffeur, 1030 Worthington st.
Carney, James A.,	71 Bryant st.,	Laborer, City of Springfield.
Carpenter, Henry D.,	17 Pinney place,	Fireman, 283 Worthington st.
Carr, William A.,	43 Dorn st.,	Salesman, 117 State st.
Carrigan, Edward H.,	112 Greenwood st.,	Printer, 381 Main st.
Carrigan, John R.,	68 Walnut st.,	Chauffeur, 20 Ridgewood place.
Carroll, Christopher E.,	18 Margaret st.,	Clerk, 666 Main st.
Carroll, Edward,	55 Manhattan st.,	Laborer, 837 State st.
Carroll, Edward,	54 Patton st.,	Laborer, 837 State st.
Carroll, Robert H.,	27 Elmwood st.,	Polisher, Unemployed.
Carter, George A.,	245 Oak Grove ave.,	Gold Beater, 104 Andrew st.
Carty, William F.,	22 Warren ave.,	Electrician, 73 State st.
Case, Robert,	17 Clifton ave.,	Janitor, Central St. School.
Casey, Edward J.,	3 Hillside place,	Superintendent, 29 Sheffield st.
Casey, John Clark,	12 Melrose st.,	Painter, 837 State st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Casey, Maurice,	28 Arbor st.,	Brass Molder, Harley Foundry Co., East Springfield.
Cassidy, Thomas,	88 Spring st.,	Stage Carpenter, 192-194 Worthington st.
Castle, Clifford De W.	210 Maple st.,	Merchant, 49 Lyman st.
Caswell, Richard H.,	8½ Main st.,	Conductor, 5 North Main st.
Cataw, Arthur Z.,	26 Leonard st.,	Shipping Clerk, 435 Dwight st.
Cavanaugh, James,	47 Birnie ave.,	Stone Cutter, John Lawler Sons, Pine Point.
Cavanaugh, Maurice W.,	111 Congress st.,	Steamfitter, 59 Fort st.
Cawley, Thomas F.,	384 Armory st.,	Steamfitter, 73 State st.
Chalker, Frank J.,	14 Howard st.,	Salesman, 16 Sanford st.
Chamberlin, George H.,	53 Firglade ave.,	Clerk, Stockbridge st.
Chamberlin, Walter L.,	31 Crosby st.,	Machine Operator, Stockbridge st.
Chandler, Louis J.,	667 State st.,	Treasurer, Chandler Co., Napier st.
Chapin, Fred D.,	135 Springfield st.,	Salesman, 23 Osgood st.
Chapin, Horatio T.,	166 Liberty st.,	Assistant Shipping Clerk, Water Dept., City.
Chapin, Raymond T.,	980 State st.,	Machinist, Stockbridge st.
Chaplin, Gilbert H.,	444 Sumner ave.,	Real Estate Dealer, 441 White st.
Chapman, Harvey,	138 Bay st.,	Merchant, 141 Lyman st.
Chechile, Frank J.,	106 Walnut st.,	Metal Worker, 146 State st.
Childs, Harry A.,	30 Bradford st.,	Auditor, 310 Main st.
Chilson, Arthur A.,	48 Monmouth st.,	Agent, N.Y.N.H. & H. Freight House, Water st.
Choiniere, Arthur,	29 Fremont st.,	Carpenter, 19 East Court st.
Christofferson, Ernst A.,	79 Melrose st.,	Machinist, 160 Wilbraham ave.
Christy, Edward T.,	657 Main st.,	Shipping Clerk, 37 Harrison ave.
Church, Sumner D.,	180 Fort Pleasant ave.,	Clerk, 38 Stockbridge st.
Clampit, George W.,	916 Main st.,	Blacksmith, 916 Main st.
Clancy, John A.,	11 Armory st.,	Taxi Dealer, 87 Bridge st.
Clapp, George O.,	4 Chestnut st.,	Plumber, 56 Florence st.
Clark, Charles H.,	829 Main st.,	Grocer, 829 Main st.
Clark, Christopher,	29 Kenwood Park,	Janitor, Forest Park School.
Clark, Edwin H.,	131 Bowdoin st.,	Grocer, 16-18 Lyman st.
Clark, Ellsworth M.,	138 Wilbraham road,	Proofreader, 381 Main st.
Clark, Frank A.,	46 Bradford st.,	Watchman, 662 North Main st.
Clark, Frederick A.,	49 Crystal ave.,	Machinist, Stockbridge st.
Clark, John B., Jr.,	26 Belvidere ave.,	Driver, 435 Dwight st.
Clark, Michael F.,	27 Waverly st.,	Tinner, 7 East Hooker st.
Clark, Nathan L.,	130 Malden st.,	Machinist, 39 Mechanic st.
Clark, Roe S.,	43 Berkeley st.,	Cost Clerk, 168 Birnie ave.
Clark, Seth H.,	36 Fairfield st.,	Assistant Superintendent, 238 Main st.
Clark, William P.,	51 Armory st.,	Engineer, City of Springfield.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Clayton, Robert H.,	48½ Mason st.,	Motorman, 5 North Main st.
Cleary, Frank M.,	11 Brown st.,	Clerk, 373 Main st.
Cleveland, Edward B.,	264 Pearl st.,	Salesman, 350 Main st.
Coe, David C.,	237 Long Hill st.,	Merchant Tailor, 26 Vernon st.
Coffey, Timothy Arthur,	336 Central st.,	Druggist, 503 Main st.
Cofski, Adolph,	73 Bradford st.,	Manager, 186 Worthington st.
Cohen, Julius A.,	31 Maple st.,	Proprietor, 427 Main st.
Cole, John C.,	372 St. James ave.,	Retired.
Collenberg, William G.,	28 Beaumont ter.,	Clerk, 500 Main st.
Collins, Charles,	100 Abbe ave.,	Paper Finisher, Fisk ave.
Collins, Edward F.,	160 Worcester st.,	Proprietor, 148 Main st., I. O.
Collins, Edward W.,	60 Vinton st.,	Wire Weaver, Heywood st.
Collins, Harris E.,	190 Forest Park ave.,	Manager, 156 Lyman st.
Collins, James M.,	45 Oak Grove ave.,	Builder, 45 Oak Grove ave.
Collins, John J.,	29 Underwood st.,	Electrician, 1-3 Court House place.
Collins, Raymond E.,	32 Whittier st.,	Traveling Salesman, 149 Wason ave.
Collins, Stephen J.,	34 Church st.,	Grocer, 10 Main st.
Collins, Thomas M., Jr.,	520 Armory st.,	Brick Mason, 19 Sanford st.
Collins, William M.,	34 Church st.,	Salesman, Dunham Bros. Co., Brattleboro, Vt
Collord, Harry C.,	28 Itendale st.,	Clerk, 324 Main st.
Comans, Andrew P.,	36 Fort Pleasant ave.,	Printer, 292 Main st.
Combs, Charles L.,	32 Dartmouth st.,	Retired.
Cone, Volney E. H.,	47 Grant st.,	Draftsman, foot Church st., West Springfield.
Cone, William H.,	858 Belmont ave.,	Saloon Keeper, 11 Hampden st.
Congdon, Oscar R.,	87 Bancroft st.,	Salesman, 390 Bridge st.
Conlin, Bernard J.,	42 Bancroft st.,	Plumber, 19 Worthington st.
Connelly, John P.,	26 Bancroft st.,	Laborer, 5 North Main st.
Connelly, William T.,	318 Franklin st.,	Cigar Maker, 127½ Essex st.
Connor, Daniel,	52 Bond st.,	Laborer, 11 Bond st.
Connors, John J.,	138 Butler st.,	Chauffeur, 31 Maple st.
Connors, William J.,	43 Hollywood st.,	Telegraph Operator, 318 Main st.
Converse, Cyrus H.,	220 Oak st., I.O.,	Bookkeeper, Pine st., I. O.
Converse, Lester F.,	79 Vermont st.,	Machinist, 41 Mill st.
Conway, William A.,	State and Dwight sts.,	Auditor, 500 Main st.
Cook, Frank C.,	100 Washington road,	Accountant, 451 Main st.
Cook, Fred J.,	91 Grenada ter.,	Superintendent, 499 Main st.
Cook, George S.,	33 Chapin ter.,	Mason Supplies, 31 Cypress st.
Cook, Walter,	48 Charter ave.,	Chauffeur, 381 Liberty st.
Coolbroth, Edwin L.,	290 Bridge st.,	Weigh Master, 220 Summer st.
Cooley, George E.,	56 Waverly st.,	Millwright, 32 Sanford st.
Cooley, Moses L.,	24 Sumner ter.,	Merchant, 605 Main st.
Cooley, Victor H.,	169 Lebanon st.,	Printer, 29 Worthington st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION
Cooley, Walter E.,	207 Pine st.,	Reporter, 310 Main st.
Coolidge, Floyd G.,	952 State st.,	Clerk, 837 State st.
Cooney, Martin E.,	140 Franklin st.,	Pressman, 29 Worthington st.
Cooper, Walter A.,	9 York st.,	Painter, 9 York st.
Corbett, William J.,	55 Portland st.,	Printer, 29 Worthington st.
Corbin, Chester B.,	42 Palmer ave.,	Wine Steward, 167 Bridge st.
Cordner, Thomas G.,	433 Bay st.,	Contractor, 433 Bay st.
Coren, Isaac,	249 Carew st.,	Expressman, 249 Carew st.
Corliss, Thomas M.,	109 Everett st.,	Clerk, 392 Main st.
Cornwell, Harry I.,	28 Cypress st.,	Janitor, 28 Cypress st.
Cosgrove, James S.,	597 Chestnut st.,	Steamfitter, 24 Willow st.
Costigan, Daniel,	56 Greenwood st.,	Laborer, Railroad Station.
Costine, William G.,	63 Greene st.,	Salesman, 16-32 Sanford st.
Cotter, James J.,	34 Pearl st.,	Master Plumber, 28 Wight place.
Coughlin, James,	124 Congress st.,	Yard Clerk, Charles st.
Coughlin, Peter, Jr.,	57 Bancroft st.,	Machinist, 370 Birnie ave.
Coughlin, Thomas J., Jr.,	54 Winthrop st.,	Steamfitter, foot Church st., West Springfield.
Courtney, Edward A.,	15 Beaumont ter.,	Machinist, N. E. Westinghouse Co., Chicopee Falls.
Courtney, James A.,	62 Waverly st.,	Printer, 381 Main st.
Courtney, Patrick John,	57 Clantoy st.,	Machinist, B. & A. Shops, West Springfield.
Cowles, Alfred B.,	40 Parkwood st.,	Life Insurance, 356 Main st.
Cowles, Frank J.,	50 Scott st.,	Clerk, 30 Hancock st.
Craig, Albert B.,	70 Beaumont st.,	Miller, N. E. Westinghouse Co., East Springfield.
Craig, Joseph W.,	360 Eastern ave.,	Plumber, 184 State st.
Crane, Alfred S.,	61 Dartmouth st.,	Real Estate, 289 Main st.
Crane, Samuel H.,	47 Magnolia ter.,	Assembler, Stockbridge st.
Creighton, Chester M.,	1 Lebanon place,	Painter, 1 Lebanon place.
Crockett, Ernest D.,	59 Burton st.,	Salesman, Spencer Tool Co., Boston.
Crockett, Merton J.,	23 Parkwood st.,	Merchant, 288 Bridge st.
Crofoot, Grant M.,	216 Main st., I.O.,	Clerk, Front st., I. O.
Cronin, Daniel,	88 Prospect st.,	Motorman, 5 North Main st.
Crossman, Charles P.,	15 Amherst st.,	Rubber Stamp Maker, 225 Main st.
Crowley, John J.,	95 Central st.,	Foreman, 48 Harrison ave.
Crowningshield, Charles H.,	42 Chase ave.,	Filer, Stockbridge st.
Cruikshank, Alan,	36 Bancroft st.,	Chauffeur, 345 Main st.
Cummings, Alexander, Jr.,	41 Johnson st.,	Salesman, 123 Carew st.
Cunliffe, J. William,	18 Middlesex st.,	Salesman, 23 Elm st.
Curran, Bernard Joseph,	83 Dartmouth st.,	Finisher, 357 Main st.
Curran, C. Francis,	194 Central st.,	Salesman, 147 Chestnut st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Curran, Hugh Michael,	81 Cass st.,	Foreman, Fisk Rubber Co., Chicopee Falls.
Currier, Charles R.,	Plumtree road,	Photographer, Chandler Co., Napier st.
Currier, Richard A.,	7 Central st.,	Insurance Agent, 318 Main st.
Curtis, Howard F.,	38 Acushnet ave.,	Textile Worker, 15 Mill st.
Curtis, Howard L.,	17 Princeton st.,	Plumber, 17 Princeton st.
Curtiss, Edward S.,	N. S. Hillman st.,	Clerk, 22 Hillman st.
Cushman, Leroy C.,	126 Firglade ave.,	Insurance Agent, 500 Main st.
Cushman, Walter M.,	48 Kenwood Park,	Manager, 302 Locust st.
Cutler, Arthur D.,	48 Firglade ave.,	Assistant Treasurer, 140 Wilbraham ave.
Daley, Edward J.,	38 Melrose st.,	Bookkeeper, foot Church st., West Springfield.
Daley, John D.,	382 Chestnut st.,	Vulcanizer, Fisk Rubber Co., Chicopee Falls.
Dalton, Fred W.,	74 Catharine st.,	Clerk, 190 State st.
Daly, James A.,	92 Cedar st.,	Chauffeur, 108 Alden st.
Daly, James R.,	26 Mattoon st.,	Grocery Clerk, 144 State st.
Damon, Walter H.,	32 Bancroft st.,	Superintendent, 73 State st.
Davidson, William Henderson,	175 Hampshire st.,	Machinist, Pine st., I. O.
Davis, Carl G.,	216 Pearl st.,	Manufacturer, 67 Boylston st.
Davis, Edward T.,	31 Maple st.,	President, 398 Bridge st.
Davis, Fred W.,	104 Spring st.,	Waiter, 122 Spring st.
Davis, Michael J.,	162 Hancock st.,	Yardmaster, N. Y. N. H. & H. R. R.
Davis, Rufus E.,	50 Mattoon st.,	Repairman, 283 Worthington st.
Davis, Theodore H.,	33 Donald st.,	Musician, 192-194 Worthington st.
Davis, Thomas H.,	647½ Main st.,	Carpenter, 154 State st.
Davis, Wilbert A.,	16 Melrose st.,	Switch Board Operator, 73 State st.
Day, Edward H.,	140 Chestnut st.,	Superintendent, 48 Harrison ave.
Day, Francis A.,	30 Parkwood st.,	Assistant Manager, 21 Cypress st.
Dean, Frederick A.,	115 State st.,	Music Dealer, 115 State st.
Dearborn, Frederick B.,	122 Firglade ave.,	Accountant, Union Station.
Dearden, Frank H.,	129 Suffolk st.,	Foreman, City of Springfield.
Deffner, George J.,	210 High st.,	Machinist, 127 Dwight st.
Dehan, John H.,	119 Essex st.,	Clerk, 373-375 Main st.
Demarest, Daniel D.,	51 Federal st.,	Industrial Engineer. N. E. Westing- house Co., East Springfield.
Demars, Fred,	4 Howard place,	Laborer, 21 Cypress st.
Dennis, Fred J.,	129 Greene st.,	Chauffeur, 73 State st.
Dennis, Fred P.,	315 Main st., I. O.,	Weaver, Hodges Fiber Co., I. O.
Denver, Paul H.,	46 Lakeside ave.,	Clerk, 31 Wilbraham road.
Derby, Winfred P.,	97 Clarendon st.,	Foreman, American Wire Wheel Co., East Springfield.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Derose, George A.,	15 Leete st.,	Painter and Paper Hanger, 15 Leete st.
Derusha, Charles,	54 Elmwood st.,	Shipping Clerk, 906 South Main st.
Dexter, Arthur L.,	52 Pearl st.,	Shipping Clerk, 116 Liberty st.
Dickerman, William A.,	34 Scott st.,	Manager, 308½ Belmont ave.
Dickinson, Oliver H.,	110 Atwater ter.,	Seed Man, 110 Atwater ter.
Dickson, James E.,	9 Buckingham place,	Chef, 9 Buckingham place.
Dignan, Thomas,	50 Brookline ave.,	Steamfitter, 32 East Court st.
Dill, Charles H.,	534 Armory st.,	Watchman, 73 State st.
Dill, William L.,	63 Westford circle,	Machinist, 837 State st.
Dineen, Martin J.,	21 Donald st.,	Bricklayer, About the City.
Dineen, Patrick,	116 Tenth st.,	Bricklayer, 68 Temple st.
Dion, Alfred,	200 Main st., I. O.,	Weaver, 389 Plainfield st.
Dionne, Joseph E.,	44 Manhattan st.,	Proprietor, 919 State st.
Disanti, Frank,	607 Main st.,	Barber, 565 Main st.
Dittrich, Paul T.,	23 Hawley st.,	Baker, 823 State st.
Divily, Michael,	45 Armory st.,	Receiving Clerk, N.Y.N.H. & H.R.R.
Dobson, Thomas A.,	178 Maple st.,	Steward, 137½ State st.
Doersam, Franz Otto,	40 Murray Hill ave.,	Cigar Maker, 278 Main st.
Doherty, Eugene,	34 Clark st.,	Porter, 209 Chestnut st.
Dolan, John E.,	83 Tyler st.,	Gasfitter, 39 State st.
Dolan, John J.,	973 Carew st.,	Salesman, 120 Walnut st.
Doland, Richard R.,	113 Massachusetts ave.,	Auditor, 500 Main st.
Donald, George D.,	41 Main st.,	Manager, 12 Stearps sq.
Donlin, Thomas M.,	128 Union st.,	Butcher, 536 Plainfield st.
Donoghue, James A.,	42 Morgan st.,	Custodian, 217 Franklin st.
Donohue, Daniel P.,	4 Eagle st.,	Stockkeeper, 240 Main st.
Donohue, John W.,	32 Plainfield st.,	Architect, 476 Main st.
Donovan, David F.,	10 Arbor st.,	Plumber, 77 Dwight st.
Donovan, James J.,	82 Cherry st.,	Manager, 273 Main st.
Donovan, James J.,	117½ Congress st.,	Painter, 125 Liberty st.
Donovan, Michael J.,	383 Armory st.,	Teamster, 54 Fort st.
Donovan, Richard,	114 Butler st.,	Merchant, 114 Butler st.
Doolittle, Fred E.,	41 Albemarle st.,	Superintendent, 53 Wilbraham road.
Dorne, George A.,	657 Main st.,	Painter, 79 Central st.
Doty, D. Ernest,	267 Tyler st.,	Lithographer, 140 Wilbraham ave.
Doty, Olen E.,	120 Forest Park ave.,	Banker, 387 Main st.
Doubleday, Edwin C.,	216 Pearl st.,	Accountant, 293 Bridge st.
Dougan, James Alexander,	15 Portland st.,	Conductor, 5 North Main st.
Dougherty, John,	455 Armory st.,	Paper Oiler, 220 Franklin st.
Dowd, Michael J.,	388 Chestnut st.,	Pressfeeder, 367 Worthington st.
Dowd, William J.,	32 Chase ave.,	Barber, 215 Main st.
Dowling, Frederick A.,	1259 Berkshire ave.,	Hotel Manager, 13 Oak st., I. O.
Downer, Guy W.,	51 Stratford ter.,	Teller, 321 Main st.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Downey, Daniel J.,	67 Bond st.,	Painter, B. & M. R. R.
Doyle, Daniel Joseph,	43 Dorn st.,	Wire Man, 73 State st.
Doyle, John F.,	54 Webster st.,	Shipping Clerk, 67 Lyman st.
Doyle, John Raymond,	117 Patton st.,	Salesman, 148 Lyman st.
Doyle, William P.,	117 Patton st.,	Floor Walker, 349-359 Main st.
Drabble, George J.,	19 Litchfield st.,	Clerk, 411 Main st.
Draper, William P.,	32 Myrtle st.,	Insurance Agent, 356 Main st.
Drinan, John L.,	38 Hall st.,	Plumber, 240 Main st.
Drinkwine, Leon,	38 Bradford st.,	Barber, 133 North Main st.
Driscoll, Francis J.,	28 Everett st.,	Real Estate, 476 Main st.
Driscoll, George J.,	96 Cambridge st.,	Die Sinker, Hodges Fiber Co., I. O
Driscoll, John A.,	53 Leete st.,	Upholsterer, 57 Suffolk st., Holyoke.
Driscoll, Richard J.,	648 State st.,	Auto Salesman, 716 Sumner ave.
Driscoll, Timothy,	231 Tyler st.,	Mason Tender, About the City.
Dubour, Henry N.,	74 Tenth st.,	Machine Hand, 225 Liberty st.
Dubuc, Joseph,	28 Central st.,	Lather, 28 Central st.
Duckworth, Harold G.,	114 Harvard st.,	Director, 41 Mill st.
Duffy, Stephen F.,	67 Whittier st.,	Conductor, 5 North Main st.
Dugger, William H.,	49 Clinton st.,	Fireman, foot Church st., West Springfield.
Duguay, Wilfred,	83 Clantoy st.,	Press Hand, 336 Birnie ave.
Duke, Charles O.,	4 Eagle st.,	Skilled Laborer, Springfield Rendering Co., Brightwood.
Dumphy, Thomas L.,	341 Oakland st.,	Painter, 776 State st.
Dunham, Harry W.,	67 Biltmore st.,	Gardener, Park Dept., City.
Dunlap, Frank L.,	190 Fort Pleasant ave.,	Real Estate, 293 Bridge st.
Dunn, Charles N.,	207 Belmont ave.,	Manager, 385 Liberty st.
Dunn, James E.,	24 Congress st.,	Wine Clerk, 147 Main st.
Dunn, William H. G.,	1528 State st.,	Elevator Operator, Miners Chocolate Co., Berkshire ave.
Durgan, Thomas,	96 Sherman ave.,	Painter, 96 Sherman ave.
Durkee, George L.,	17 Howard place,	Carpenter, 14 Stockbridge st.
Dwyer, Thomas J.,	564 Chestnut st.,	Foreman, Fisk Rubber Co., Chicopee Falls.
Dyer, Stanley G.,	57 Eastern ave.,	Elevator Work, 15 Park st.
Dyer, Thomas,	W. S. Parker st., I.O.,	Farmer, Sixteen Acres.
Eagan, Thomas, Jr.,	39 Locust st.,	Envelope Cutter, 21 Cypress st.
Earl, Lewis M.,	29 Marlboro ave.,	Engraver, 411-413 Main st.
Earl, W. Allen,	228 Belmont ave.,	Foreman, 17 Worthington st.
Earle, Charles W.,	122 Chestnut st.,	Proprietor, 29 Harrison ave.
Eastman, Alfred P.,	102 Marion st.,	Machinist, 156 Wason ave.
Eaton, Harry W.,	33 Wellesley st.,	Clerk, 123 Florence st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Eaton, Theodor,	W. S. Main st.,	Foreman, 986 Main st.
Eberhardt, Oscar A.,	47 Demond ave.,	Secretary, R. R. Y. M. C. A.
Eckert, Raymond,	36 Kimberly ave.,	Paymaster, Dean Steam Pump Co., Holyoke.
Eddy, Schuyler B.,	57 Mulberry st.,	Fire Insurance, 340 Bridge st.
Edson, George A.,	73 Spring st.,	Barber, 197 Pine st.
Edwards, Andrew D.,	106 Stockman st.,	Machinist, B. & A. R. R.
Edwards, Frank W.,	760 Worthington st.,	Draftsman, 278 Chestnut st.
Egan, John M.,	25 Cumberland st.,	Printer, 159 Wason ave.
Eger, George W.,	40 Arch st.,	Bookkeeper, 11 Bond st.
Ehrlich, Mosis,	25 Lenox st.,	Merchant, 105 Worthington st.
Ekberg, Andrew K.,	874 Carew st.,	Carpenter, Fisk Rubber Co., Chicopee Falls.
Elliot, Francis E.,	41 Ladd st.,	Clerk, 30-32 Lyman st.
Ellis, Thomas E.,	8 Emily st.,	Machinist, N. E. Westinghouse Co., East Springfield.
Ellison, William H.,	116 Belmont ave.,	Merchant, 524 Main st.
Ellsworth, Abram L.,	403 Eastern ave.,	Teamster, 195 Alden st.
Elmer, George C.,	r. 24 Sumner ave.,	Carpenter, r. 24 Sumner av.
Elwell, Homer F.,	49 Broad st.,	Structural Iron Worker, 284 Birnie av.
Ely, Charles L.,	71 McKnight st.,	Collector, Standard Oil Co., Albany st.
Emerson, Edwin,	99 Jefferson ave.,	Foreman, American Writing Paper Co., Mittineague.
Emerson, John B.,	315 Chestnut st.,	Motorman, 5 North Main st.
Emerson, Ned E.,	26 Malden st.,	Decorator, 341 Oakland st.
Empsall, George H.,	29 Beechwood ave.,	President, 41 Mill st.
Engel, Charles F.,	14 Middlesex st.,	Manufacturer, 92 Hayden st.
Erickson, Axel,	42 Malden st.,	Painter, 168 Bridge st.
Erickson, Louis G.,	872 Liberty st.,	Manufacturer, 872 Liberty st.
Ericson, Carl E.,	103 Waite st.,	Cutter, Fisk Rubber Co., Chicopee Falls.
Evans, Charles F.,	78 Oak Grove ave.,	Chief Inspector, 837 State st.
Evans, William,	144 Essex st.,	Foreman, City of Springfield.
Everton, Willard H.,	47 Bradford st.,	Meat Cutter, 38 Main st.
Ewing, Thomas,	56 Holyoke st.,	Telephone Lineman, 114 Liberty st
Fairchild, Arthur D.,	131 Florida st.,	Clerk, 195 State st.
Fairfield, George W.,	94 Bowles st.,	Auctioneer, 289 Main st.
Farrar, Shirley P.,	91 Norfolk st.,	Pressman, 140 Wilbraham av.
Farrell, Christopher W.,	147 Bond st.,	Motorman, 5 North Main st.
Farrell, Matthew H.,	23 Pecousic ave.,	Cigar Manufacturer, 79 Norwood st.
Farrell, Thomas R.,	163 Bridge st.,	Collector, 292 Main st.
Faust, Joseph H.,	N. S. Cedar St., I. O.,	Barber, 22 Oak st., I. O.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Favor, George H.,	42 Alderman st.,	Salesman, 42 Alderman st.
Feeley, James E.,	122 Chestnut st.,	Clerk, 71 Worthington st.
Fellows, William L.,	20 Collins st.,	Lithographer, 43 Cross st.
Fenn, Percy D.,	45 Essex st.,	Machinist, Stockbridge st.
Fenner, Joseph C.,	38 Morgan st.,	Baker, 68 Church st.
Ferguson, Howard T.,	155 Wilbraham rd.,	Printer, 279 Dwight st.
Ferguson, James E.,	41 Sylvan st.,	Dyer, 14 Harrison av.
Fernald, Hersey E.,	154 Myrtle st., I. O.,	Retired.
Ferre, Harold P.,	93 Marengo Park,	Purchasing Agent, 367 Worthington st.
Fett, August,	403 Eastern ave.,	Tailor, 350 Main st.
Figgie, Joseph T.,	45 Gardner st.,	Printer, 14 Pyncheon st.
Findeisen, John G.,	15 Westford ave.,	Proprietor, 21 Lyman st.
Finn, Jeremiah D.,	92 Spring st.,	Barber, 16 East Court st.
Finnerty, John F.,	558 Chestnut st.,	Undertaker, 305 State st.
Finton, Thomas J.,	123 Essex st.,	Machinist, 55 Sharon st.
Fisher, George G.,	643½ Main st.,	Conductor, 5 North Main st.
Fitz, William S. T.,	71 Ranney st.,	Clerk, 179 Liberty st.
Fitzgerald, Garrett,	13 Underwood st.,	Butcher, 16 Sanford st.
Fitzgerald, James M.,	50 Winthrop st.,	Bookbinder, 56 Harrison ave.
Fitzgerald, Miles,	657 Main st.,	Painter, foot Church st., West Springfield.
Fitzgerald, Richard J.,	212 Eastern ave.,	Master Plumber, 31 Sanford st.
Fitzmorris, Thomas,	53 Bancroft st.,	Hostler, B. & M. R. R. Shops, West Springfield.
Fitzpatrick, Frederick H.,	15 Summit st.,	Auto Salesman, 7 Columbia ter.
Fitzpatrick, John E.,	15 Richelieu ct.,	Millwright, 662 North Main st.
Flagg, Charles W.,	13 Converse st.,	Driver, 47 Dwight st.
Flagg, George F.,	656 State st.,	Real Estate, 656 State st.
Flagg, William H.,	601 Main st.,	Ice-man, 47 Dwight st.
Flanders, Luther E.,	129 Bowles st.,	Carpenter, 134 Cass st.
Fleming, William H.,	101 Everett st.,	Laborer, 134 Cass st.
Fletcher, Harold B.,	57 Johnson st.,	Clerk, 350 Main st.
Flint, Fred F.,	64 Bliss st.,	Repairman, 5 North Main st.
Flood, Thomas M.,	50 Clinton st.,	Lineman, 390 Main st.
Flor, Walter,	72 Florida st.,	Traveling Salesman, 224 Worthington st.
Flynn, Michael William,	28 Butler st.,	Janitor, 347 Worthington st.
Flynn, Robert E.,	199 Eastern ave.,	Cashier, B. & A. Freight Office, Charles st.
Flynn, Thomas L.,	101 Oak st., I. O.,	Pattern Maker, Pine st., I. O.
Fogg, Walter C.,	62 Ashley st.,	Chauffeur, 116 Pearl st.
Foley, Michael T.,	43 Brookline ave.,	Paper Maker, 4 Birnie ave.
Footman, Matthew J.,	71 Cleveland st.,	Trainman, B. & A. R. R.
Forbes, Frank P.,	308 Union st.,	Accountant, 662 North Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Forbes, Wilfrid J.,	518 Liberty st.,	Cashier, 27 Lyman st.
Forer, John H.,	77 Orange st.,	Auto Supply Dealer, 37 Dwight st.
Fortier, Louis C.,	44 Mill st.,	Clerk, 666 Main st.
Fortin, Charles A.,	510 Central st.,	Painter and Paper Hanger, 776 State st.
Foskett, Harrison W.,	21 Maple st.,	Delivery Man, 399 Main st.
Foss, Leslie D.,	145 Magazine st.,	Insurance Agent, 145 Magazine st.
Foster, Oliver J.,	18 Gordon st.,	Clerk, 500 Main st.
Foster, Walter A.,	164 Sherman st.,	Inspector, N. E. Westinghouse Co., East Springfield.
Foster, William E.,	212 Oakland st.,	Manager, 325 Belmont ave.
Fountain, Oliver E.,	597 (A) Main st.,	Wire Weaver, Heywood st.
Fowler, Dorr R.,	121 Princeton st.,	Manager, 317 Main st.
Fox, Raymond W.,	323 Central st.,	Meter Inspector, 73 State st.
Francis, Albert N.,	15 Cambridge st.,	Photo Engraving, 257 Main st.
Francoeur, George,	30 Franklin st.,	Body Maker, 531 Worthington st.
Frane, Harry C.,	34 Salem st.,	Cigar Maker, 459 Worthington st.
Franklin, George D.,	285 Carew st.,	Superintendent, 285 Carew st.
Frappier, Alfred J.,	97 Belle ave.,	Machinist, 837 State st.
Fredette, Aime L.,	25 Wendell ave.,	Printer, 35 Dwight st.
Fredette, George,	396 Main st., I. O.,	Laborer, 274 Worcester st.
Freedman, Albert,	23 Pecousic ave.,	Merchant Tailor, 153 State st.
French, Robert H.,	7 Sheridan lane,	Printer, 405 Dwight st.
Freshour, Louis E.,	218 Oakland st.,	Traveling Salesman, Boston.
Frey, Charles,	24 Grove st.,	Motorman, 5 North Main st.
Friese, D. Fred,	66 Pynchon st.,	Printer, 292 Main st.
Frost, Arthur B.,	61 Forest st.,	Merchant, 482 Sumner ave.
Frost, Charles E.,	32 Emery st.,	Retired.
Fuller, Alvin W.,	223 Long Hill st.,	Cashier, 498-506 Main st.
Fuller, David A.,	22 Lombard st.,	Laborer, City of Springfield.
Fuller, Frederic B.,	813 Armory st.,	Clerk, 130 Birnie ave.
Fuller, Frederic W.,	120 Mill st.,	Insurance, 317 Main st.
Fuller, Perley L.,	South Side Allen st.,	Farmer, South Side Allen st.
Fulton, John B.,	63 Bradford st.,	Foreman, 88 Birnie ave.
Gagnier, Albert W.,	44 Eagle st.,	Contractor, 44 Eagle st.
Gagnier, Samuel J.,	32 Eagle st.,	Contractor, 32 Eagle st.
Gagnon, Frank J.,	15 Donald st.,	Counterman, 25 Main st.
Galbraith, Martin J.,	12 Pynchon st.,	Motorman, 5 North Main st.
Galvin, James,	449 Union st.,	Foreman, 40 Taylor st.
Galvin, Thomas E.,	24 Governor st.,	Iceman, 24 Governor st.
Gamble, Thomas,	80 Parkside ave.,	Foreman, 46 Harrison ave.
Gammons, William L.,	1604 North st.,	Clerk, 500 Main st.
Garber, Samuel,	112 Belle ave.,	Jitney Driver, About the City.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Gardiner, William O.,	53 Hancock st.,	Janitor, 500 Main st.
Gardner, Adelbert L.,	17 Catharine st.,	Packer, 292 Main st.
Gardner, Charles H.,	128 Oak Grove ave.,	Salesman, 227 Worthington st.
Garen, Charles H.,	32 Besse pl.,	Vulcanizer, 141 Chestnut st.
Garvey, Andrew T.,	183 Tyler st.,	Foreman, Street Dept., City.
Garvey, James M.,	36 Kenwood Park,	Clerk, 17 Elm st.
Garvey, John W.,	67 Butler st.,	Foreman, 850 State st.
Gates, Albert W.,	15 Locust st.,	Electrician, 17 Worthington st.
Gates, Charles A.,	270 White st.,	Motorman, 5 North Main st.
Gates, Joseph H.,	24 Donald st.,	Cable Splicer, 283 Worthington st.
Gault, J. Frank,	68 Marlboro ave.,	Machinist, B. & M. Shops.
Gaunt, Frank L.,	209 Walnut st.,	Chauffeur, 123 Carew st.
Gaunt, William A.,	47 Ladd st.,	Janitor, 5 North Main st.
Gauthier, Louis J.,	29 Wendell ave.,	Shop Hand, 179 Dwight st.
Gebbie, John,	405 Eastern ave.,	Machinist, Stockbridge st.
Geckler, Burton E.,	335 St. James ave.,	Architect, 476 Main st.
Gendreau, Wilfrid C.,	58 Johnson st.,	Machinist, Westinghouse Co., Chicopee Falls.
Gerard, William M.,	16 Marble st.,	Night Watchman, 387 Main st.
Gibbs, J. Edwin,	63 Waverly st.,	Manager, 464 Main st.
Gifford, Albert W.,	72 Princeton st.,	Locksmith, 31 Lyman st.
Gifford, Arthur L.,	45 Trinity ter.,	Salesman, 16 Stearns sq.
Gifford, Frederick L.,	110 Wellington st.,	Inspector, Stockbridge st.
Gilbert, Adolph W.,	140 Oak st., I. O.,	Manager, Pine st., I. O.
Gilbert, Arthur L.,	40 Homer st.,	Florist, 40 Homer st.
Giles, William,	20 Colonial ave.,	Superintendent, Fiberloid Mfg. Co., I. O.
Gilhooley, Frank H.,	26 Bancroft st.,	Bartender, 190 Main st.
Gillette, Marshall F.,	117 Bond st.,	Polisher, N. E. Westinghouse Co., East Springfield.
Gillette, Mortimer D.,	21 Florence st.,	Telegrapher, N. Y., N. H. & H. R. R. Yard Tower.
Gladfelter, Harry,	25 Bancroft st.,	Inspector, N. E. Westinghouse Co., Chicopee Falls.
Goddard, Edmund B.,	29 Myrtle st.,	Foreman, Chandler Co., Napier st.
Godfrey, William, Jr.,	64 Whittier st.,	Bookkeeper, 21 Besse pl.
Goesling, Albert C.,	207 Wilbraham rd.,	Lithographer, 140 Wilbraham ave.
Goldthwaite, Edward S.,	15 Edwards st.,	Insurance, 374 Main st.
Golon, Frank,	100 North Main st.,	Real Estate Dealer, 244 Main st.
Goodell, William P.,	30 Portland st.,	Compositor, 381 Main st.
Goodrich, Frank B.,	132 College st.,	Real Estate, 132 College st.
Goodrich, Lee D.,	Cooley st., I. O.,	Farmer, Cooley st., I. O.
Goodrich, Wilson L.,	11 Railroad st.,	Steel Expert, New England States.
Goodyear, Harry D.,	4 Howard pl.,	Salesman, 244 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Gordon, Jacob A.,	19 Franklin st.,	Real Estate, 19-21 Franklin st.
Gormbley, William P.,	88 Phoenix ter.,	Butcher, 801 Liberty st.
Gould, Clifton L.,	53 Crystal ave.,	Real Estate Dealer, 53 Crystal ave.
Graham, James,	88 Acushnet ave.,	Foreman, foot of Howard st.
Granfield, Andrew,	22 Salem st.,	Carpenter, 655 Worthington st.
Grant, John M.,	52 Mattoon st.,	Upholsterer, 357 Main st.
Graveline, Pierre,	69 Union st.,	Carpenter, 54 Fort st.
Graves, George Harold,	202 High st.,	Clerk, Heywood st.
Gray, Joseph,	24 Revere st.,	Janitor, 479 Main st.
Gray, Walter Alden,	24 Converse st.,	Carpenter, 735 Worthington st.
Greany, Peter,	54 Everett st.,	Unemployed.
Green, Daniel B.,	96 Everett st.,	Milk Peddler, 134 Cass st.
Green, Samuel,	51 Adams st.,	Merchant, 611 Main st.
Green, Samuel M.,	325 Long Hill st.,	Civil Engineer, 293 Bridge st.
Greene, Howard M.,	114 Dickinson st.,	Clerk, 195 State st.
Greene, John A.,	65 Holly st.,	Foreman, Fiberloid Co., I. O.
Greene, Wilson L.,	14 Queen st.,	Inspector, N. E. Westinghouse Co., East Springfield.
Gregg, William M.,	57 Beaumont st.,	Electrician, 1 Court House pl.
Gregg, William T.,	30 Hawley st.,	Custodian, 500 Main st.
Gregory, Percival,	47 Jasper st.,	Optician, 23 Harrison ave.
Gridley, Louis A.,	79 Sherman st.,	Traveling Salesman, Western Mass.
Griffin, Jeremiah,	254 Franklin st.,	Steamfitter, 35 State st.
Griffin, Richard J.,	359 Central st.,	Telephone Operator, 387 Main st.
Griffin, Thomas E.,	11 Sumner ter.,	Manager, foot Mechanic st.
Grindle, Arthur F.,	Wilbraham rd.,	Repairman, 30 Eastern ave.
Grinovetz, Morris,	77 Morgan st.,	Dancing Instructor, 274 Worthington st.
Griswold, Robert,	238 North Main st.,	Electrotyper, 29 Worthington st.
Grout, Clarence E.,	739 Sumner ave.,	Clerk, 160 Wilbraham ave.
Grover, James,	41 Avon pl.,	Insurance Agent, 379 Main st.
Gruenert, Carl Paul,	110 Bond st.,	Barber, 483 State st.
Gruttermeyer, William F.,	170 Massasoit st.,	Merchant, 283 North Main st.
Guess, William J.,	590 Armory st.,	Pressman, 25 Worthington st.
Gurney, Erving R.,	372 Sumner ave.,	Engineer, 63 Wilbraham rd.
Gustafson, John August,	613 Union st.,	Carpenter, 700 Worthington st.
Guyette, Charles A.,	S. S. Brickett st.,	Machinist, N. E. Westinghouse Co., Chicopee Falls.
Haas, Max Richard,	43 Centre st.,	Proprietor, 10 Sherman st.
Hadd, George H.,	66 Pyncheon st.,	Barber, 25 East Court st.
Hagar, George S.,	796 Sumner ave.,	Traveling Salesman, Hartford, Conn.
Hagerty, Daniel,	27 Sheldon st.,	Bricklayer, 310 Main st.
Haggerty, Patrick,	66 Cleveland st.,	Clerk, 361-369 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Haggerty, William J.,	12 Brookline ave.,	Insurance Agent, 7-51 Worthington st.
Haglund, Per Henry Ludwig,	9 Searle place.	Carpenter, 12 Cass st.
Hahn, Edward A.,	39 Clifton ave.,	Decorator, 73 State st.
Hale, Harry E.,	127 Spring st.,	Shipping Clerk, 662 North Main st.
Hall, Fred J.,	24 Besse place,	Insurance, 264 Main st.
Hall, William A.,	14 Sherman st.,	Shipper, 404 Dwight st.
Halliday, Thomas W.,	57 Bancroft st.,	Paper Finisher, Hyde ave.
Halloran, Matthew J.,	47 Congress st.,	Manager, 511 Main st.
Halstead, Leroy W.,	168 North Main st.,	Merchant, 275 North Main st.
Hamilton, Charles R.,	36 Longfellow ter.,	Optician, 305 Main st.
Hamilton, Ray L.,	497 State st.,	Polisher, Stockbridge st.
Hammond, William E.,	123 Amherst st.,	Bookkeeper, N. E. Westinghouse Co.
Hanks, Bert L.,	21 Carlisle st.,	Expressman, 21 Carlisle st.
Hanley, James J.,	21 Genesee st.,	Mailing Clerk, 25 Worthington st.
Hanlon, J. William,	45 Warner st.,	Real Estate Dealer, 310 Main st.
Hannah, William,	77 Commonwealth ave.,	Clerk, 500 Main st.
Hannon, John,	36 Bradford st.,	Real Estate, 36 Bradford st.
Hannon, John J.,	32 Greene st.,	Printer, 46 Harrison ave.
Hannon, Michael Joseph,	119 Armory st.,	Chaufeur, 12 Hampden st.
Hapgood, Ben A.,	47 Fairfield st.,	Treasurer, 46 Harrison ave.
Hapgood, Edwin O.,	109 Westminster st.,	Wholesale Druggist, 404 Dwight st.
Hare, Albert P.,	38 Main st.,	Real Estate Dealer, 38 Main st.
Hargreaves, John,	13 Gardner st.,	Messenger, R. R. Station.
Harkins, Fred B.,	103 Belle ave.,	Motorman, 5 North Main st.
Harlow, Archibald S.,	29 Thompson st.,	Mechanical Engineer, Fisk Rubber Co., Chicopee Falls.
Harper, Lewis A.,	59 Bond st.,	Motorman, 5 North Main st.
Harrigan, Thomas,	112 Belle ave.,	Wire Weaver, Heywood st.
Harrington, William J.,	35 Ledyard st.,	Butter Maker, 132-134 Cass st.
Hartenstein, Louis C.,	224 Main st.,	Hotel Keeper, 224 Main st.
Hartman, Albert J.,	r. 64 Wellington st.,	Carpenter, N. E. Westinghouse Co., Chicopee Falls.
Hartman, J. Roy,	39 Cliftwood st.,	Traveling Salesman, 39 Cliftwood st.
Hartwell, Frank O.,	99 Chapin ter.,	Superintendent, Fisk ave.
Harvey, Edward E.,	19 Hampden st., I. O.,	Fireman, Fiberloid Co., I. O.
Harvey, Frederic H.,	288 Chestnut st.,	Dentist, 288 Chestnut st.
Hastings, Arthur A.,	29 Mattoon st.,	Sales Manager, 317 Main st.
Hatch, Homer L.,	N. S. Allen st.,	Farmer, N. S. Allen st.
Hawley, Walter S.,	42 Chase ave.,	Unemployed.
Hayden, William J.,	58 Massachusetts ave.,	Salesman, Heywood st.
Hayes, Edward S.,	22 Mill st.,	Machine Tender, 26 Hanover st.
Hayes, Edwin P.,	46 Sumner ter.,	Engineer, foot Church st., West Springfield.
Hayes, Horace C.,	33 High st.,	Buyer, 16 Sanford st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Hayes, James J.,	122 Chestnut st.,	Meter Inspector, 73 State st.
Hayes, William,	208 Oakland st.,	Driller, Bosch Magneto Co., North Main st.
Hayhurst, Cyril W.,	655 State st.,	Stamp Maker, 367 Worthington st.
Hayman, Maurice,	264 Franklin st.,	Insurance Agent, 500 Main st.
Haynes, Philip L.,	45 Mattoon st.,	Unemployed.
Hazelwood, Frank A., Jr.,	14 Howard st.,	Shipping Clerk, 304 Main st.
Heald, Herbert,	610 North Main st.,	Shipping Clerk, Fisk ave.
Healy, Patrick H.,	839 Worthington st.,	Sign Painter, 25 Dwight st.
Heathcote, Frederick W.,	141 Florence st.,	Stock Cutter, 225 Liberty st.
Hechler, Herman,	134 Greenwood st.,	Contractor, 134 Greenwood st.
Heck, Rudolph H.,	59 Avon place,	Inspector, Stockbridge st.
Heckman, Max W.,	38 West Alvord st.,	Purchasing Agent, foot Church st., West Springfield.
Heffner, Stephen J.,	49 Acushnet ave.,	Manufacturer, 56 Harrison ave.
Hegarty, Jeremiah F.,	85 Jefferson ave.,	Foreman, 5 North Main st.
Hemming, George E.,	97 Oak st.,	Wine Clerk, 25 Walnut st.
Hendrick, George B.,	52 Warner st.,	Publicity Manager, Fisk Rubber Co., Chicopee Falls.
Hennessey, John B.,	53 Bradford st.,	Printer, 292 Main st.
Hennessey, Martin J.,	65 Prospect st.,	Business Agent, 387 Main st.
Hennessey, William A.,	9 Hillside place,	Plumber, 13 Market st.
Hertzmark, David E.,	64 Grosvenor st.,	Printer, 337 Worthington st.
Hewett, Leslie D.,	1 Boothbay place,	Saw Filer, 225 Liberty st.
Heydt, John,	179 Main st., I. O.,	Proprietor, 179 Main st., I. O.
Hickey, Michael J.,	45 Charles st.,	Inspector, N. E. Westinghouse Co., East Springfield.
Hickox, Burton,	35 Howard st.,	Printer, 56 Harrison ave.
Hicks, Arthur E.,	38 Grant st.,	Watchman, Albany st.
Higgins, Charles J.,	525 Main st.,	Salesman, 525 Main st.
Higgins, John E.,	172 Carew st.,	Teamster, 5 North Main st.
Higgins, Ray L.,	62 Osborne ter.,	Draftsman, Fisk Rubber Co., Chicopee Falls.
Hildreth, Edwin H.,	161 Florida st.,	Secretary, 195 State st.
Hill, Clyde R.,	125 Berkshire st.,	Saw Filer, 56 Yale st.
Hill, David W.,	306 Union st.,	Monument Dealer, 535 Main st.
Hilse, Herman,	35 Reed st.,	Brewer, Springfield Breweries Co., Liberty st. Branch.
Hiney, Joseph J.,	67 Oak st.,	Shipping Clerk, 398 Bridge st.
Hiter, Joseph E.,	12 Arbor st.,	Machinist, N. E. Westinghouse Co., East Springfield.
Hixon, Harold W.,	105 Central st.,	Manager, 319 Main st.
Hoar, Thomas Joseph,	59 Genesee st.,	Fireman, Liberty and Charles sts.
Hoffman, G. Benjamin,	4 Salem st.,	Cigar Maker, 457 Worthington st.
Hogan, Daniel J.,	542 Chestnut st.,	Plumber, 542 Chestnut st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Hogan, Denis A., Jr.,	56 Vinton st.,	Salesman, J. P. Squires, Boston.
Hogan, James J.,	670 Carew st.,	Laborer, City of Springfield.
Hogan, Martin,	363 Armory st.,	Laborer, N. E. Westinghouse Co., East Springfield.
Hogan, Myles C.,	38 Arch st.,	Proprietor, 87 Bridge st.
Holbrook, George M.,	140 Maple st.,	Manager, American Paper Co., Holyoke.
Holcomb, Hiram F.,	51 Leyfred ter.,	Real Estate, 387 Main st.
Holden, Perley F.,	129 Newbury st.,	Machinist, 55 Governor st.
Holland, James J.,	169 Spring st.,	Night Watchman, foot Church st., West Springfield.
Hollister, Albert D.,	28 Amherst st.,	Shipping Clerk, 100 Albany st.
Holloway, Willie L.,	76 Melrose st.,	Teamster, Springfield Rendering Co., Brightwood.
Hooker, Louis W.,	14 Holland road,	Superintendent, Springfield Provision Co., Brightwood.
Hooker, Ralph W.,	539 State st.,	Salesman, 93 Commonwealth ave., Boston.
Hopkins, Allen W.,	545 Dickinson st.,	Wire Inspector, City of Springfield.
Hopkins, John P.,	3 Hampden st., I. O.,	Comb Cutter, Fiberloid Co., I. O.
Hopper, Wilbur F.,	31 Maple st.,	Traveling Salesman, Wolverine Mfg Co., Detroit, Mich.
Horne, Archibald B.,	57 High st.,	Salesman, A. G. Spalding Co., Chicopee.
Hosley, Henry E.,	10 Ridgewood place,	Dentist, 379 Main st.
Hosley, Nelson R.,	12 Brookline ave.,	Clerk, 195 State st.
Hosmer, Harry E.,	W. S. Sixteen Acres road,	Head Washer, 61 Taylor st.
Hough, Alfred L.,	384 Armory st.,	Motorman, 5 North Main st.
Houghton, Arthur L.,	29 Eddywood ave.,	Poultry Dealer, 29 Eddywood ave.
Houghton, George H.,	39 Norfolk st.,	Carpenter, 150-156 Birnie ave.
Houlihan, Michael,	51 Auburn st.,	Machinist, B. & M. R. R. Shops.
Houlihan, William F.,	51 Auburn st.,	Machinist, B. & M. R. R.
Howe, Charles M.,	22 Greenacre sq.,	Cigar Maker, 36 Hampden st.
Howes, Harry W.,	66 Auburn st.,	Printer, 338 Worthington st.
Hoyle, Herbert R.,	55 North Main st.,	Salesman, 162½ Chestnut st.
Hoyt, Charles L.,	6 Temple st.,	Furrier, 508 Main st.
Hubbard, Fred A.,	80 Florida st.,	Office Manager, 317 Main st.
Hubbard, George A.,	48 Keith st.,	Electric Repairer, 48 Keith st.
Hubbard, George D.,	40 Carlisle st.,	Wholesale Refinery, 145 Lyman st.
Hubbard, James W.,	147 Long Hill st.,	Vice President, 307 Main st.
Hudgins, Charles L.,	25 Orleans st.,	Janitor, 78 State st.
Hughes, Edward J.,	274 Forest Park ave.,	Real Estate Dealer, 274 Main st.
Huliston, James,	72 Armory st.,	Buyer, 390-396 Main st.
Humphrey, Benjamin F., Jr.,	59 Mapledell st.,	Foreman, 837 State st.
Hunt, Edward B.,	73 Sylvan st.,	Paper Maker, 25 Harrison ave.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Huntley, Frank S.,	437 Main st.,	Carpenter, 32 Malden st.
Hurd, Raymond E.,	48 Rochelle st.,	Artist, 77 Worthington st.
Hurley, Cornelius J.,	202 Eastern ave.,	Conductor, 5 North Main st.
Hyde, Charles Addison,	96 Maplewood ter.,	Broker, Boston.
Hynes, Andrew T.,	55 Cass st.,	Linotypist, 381 Main st.
Hynes, Edward V.,	57 Cass st.,	Conductor, 5 North Main st.
Hynes, James F.,	266 Pearl st.,	Wine Clerk, 217 Worthington st.
Hynes, John D.,	12 Virginia st.,	Printer, 292 Main st.
Inman, Charles J.,	61 Yale st.,	Superintendent, Albany st.
Iredale, Harry W.,	409 Franklin st.,	Box Maker, 225 Liberty st.
Ireland, George P.,	126 Harvard st.,	Retired.
Ireland, John,	231 Main st.,	Machinist, foot Church st., West Springfield.
Irwin, Michael J.,	112 Maynard st.,	Meat Man, 1071 State st.
Irwin, Robert A.,	91 Virginia st.,	Salesman, 14 Lyman st.
Irwin, Thomas W.,	248 Pearl st.,	Bookkeeper,
Ives, Harvey M.,	47 Sunapee st.,	Meadow st., West Springfield.
Jacques, Wilfred H.,	179 Hampshire st.,	Insurance Agent, 356 Main st.
Jahn, Franz E.,	93 Florence st.,	Painter, 140 State st.
James, Raymond W.,	29 Carlton st.,	Merchant, 340 Main st.
Janes, Edward L.,	223 Long Hill st.,	Machine Hand, Stockbridge st.
Janes, Thomas I.,	11 Brown st.,	Salesman, American Brake Shoe Co., New York.
Jennings, Harold L.,	N. S. Wilbraham road,	Insurance Agent, 17 Worthington st.
Jennings, Joseph B.,	85 Grand st.,	Blacksmith, N. S. Wilbraham road.
Jerome, Stanley L.,	268 Worcester st.,	Clerk, 500 Main st.
Jewett, Harry G.,	8 Waverly st.,	Weaver, Indian Orchard Co., I. O.
Jewett, Raymond D.,	179 Massachusetts ave.,	Machinist, 130 Birnie ave.
Johnson, Albert L.,	61 Marble st.,	Clerk, 500 Main st.
Johnson, Clifton H.,	S. S. Wilbraham road,	Machinist, Stockbridge st.
Johnson, Dana R.,	36 Kenwood ter.,	Milk Peddler, S. S. Wilbraham road.
Johnson, Ernest V.,	64 Grand st.,	Salesman, 116 Broadway.
Johnson, John August,	830 St. James ave.,	Assembler, N. E. Westinghouse Co., East Springfield.
Johnson, Raymond,	101 Catharine st.,	Carpenter, 14 Stockbridge st.
Jones, Charles E.,	173 Wilbraham ave.,	Traffic Manager, Fisk Rubber Co., Chicopee Falls.
Jones, Samuel M.,	29 Ionia st.,	Machinist, 149 Wason ave.
Jordan, Charles H.,	297 Bay st.,	Stock Broker, Retired.
Joslin, Alexander A.,	17 Dorchester st.,	Insurance Agent, 287 Bridge st.
Junior, Charles E.,	24 Clifton ave.,	Proprietor, 208 Worthington st.
		Carpenter, 495 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Kallman, William,	122 Chestnut st.,	Real Estate Agent, 168 Bridge st.
Kane, John,	22 Crestwood st.,	Retired.
Kane, Michael H.,	155½ High st.,	Gauge Maker, Stockbridge st.
Kaplinger, Charles H.,	832 Chestnut st.,	Proprietor, 28 Fort st.
Kattler, Frederick,	398 Sumner ave.,	Real Estate, 381 Main st.
Kavanagh, John A.,	55 Ranney st.,	Lineman, 283 Worthington st.
Kavanaugh, William F.,	221 Summer st.,	Electrician, 201 Dwight st.
Kaynor, William Kirk,	131 Maynard st.,	Manager, 786 State st.
Keane, Joseph,	12 Genesee st.,	Shoemaker, 328 Worthington st.
Keefe, Arthur J.,	879 Worthington st.,	Shipping Clerk, Page Boulevard, East Springfield.
Kelb, Joseph,	122 King st.,	Brewer, 1273 State st.
Kelleher, John J.,	790 Liberty st.,	Baker, 373 Main st.
Keller, George,	32 Bradford st.,	Cigar Manufacturer, 222 Main st.
Kelley, Edward W.,	422 Walnut st.,	Brick Mason, About the City.
Kelley, James J.,	145 Magazine st.,	Manager, 435 State st.
Kelley, Walter E.,	4 Salem st.,	Purchasing Agent, 9 Warwick ave.
Kelly, Frank N.,	133 Franklin st.,	Printer, 29 Worthington st.
Kemater, Charles W.,	43 Cornell st.,	Banker, 423 Main st.
Kenefick, John R.,	30 Greenacre sq.,	Tailor, 487 Main st.
Kennedy, Stephen Joseph,	187 Carew st.,	Clerk, 23 State st.
Kennedy, Timothy,	75 Linden st.,	Molder, Pine st., I. O.
Kennefick, John J., Jr.,	24 Clinton st.,	Shipping Clerk, 373 Main st.
Kennefick, Richard,	65 Essex st.,	Machinist, 983 Main st.
Kenney, Pierce,	50 Bancroft st.,	Foreman, B. & A. R. R., West Springfield.
Kenny, Thomas,	15 Arbor st.,	Foreman, 35-39 State st.
Kentfield, Carroll T.,	18 Phoenix st.,	Machinist, N. E. Westinghouse Co., East Springfield.
Kenyon, Silas F.,	59 Berkshire st.,	Manager, Fiberloid Co., I. O.
Kerley, Ralph C.,	43 Scott st.,	Foreman, Stockbridge st.
Kern, William,	170 Walnut st.,	Chef, 418 Main st.
Kibbe, George E.,	148 Sherman ave.,	Transfer Clerk, 27 Lyman st.
Kibbe, Howard R.,	47 Westford circle,	Manager, 29 Sheffield st.
Kiefer, George Henry,	20 Applewood place,	Machinist, N. E. Westinghouse Co., East Springfield.
Kilgour, James,	22 Acushnet ave.,	Plumber, 428 Dickinson st.
Kilpatrick, Robert W.,	229 Walnut st.,	Chauffeur, 35 State st.
Kimball, William H.,	39 Parkwood st.,	Machine Hand, Stockbridge st.
King, Edward F.,	895 Belmont ave.,	Clerk, 226 Worthington st.
King, H. Frederic,	481 Bay st.,	Advertising Man, 292 Main st.
King, Howard M.,	2 Monmouth st.,	Assistant Superintendent, 72 Colton st.
King, Peter J.,	69 Pearl st.,	Grocery Clerk, 76 Harrison ave.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Kingston, John J.,	78 Charles st.,	Salesman, 357 Main st.
Kinaler, Mayer G.,	347 Belmont ave.,	Merchant, 148 Main st.
Kinsman, Howard L.,	43 Maplewood ter.,	Credit Man, 404 Dwight st.
Kipp, Walter C.,	134 Carew st.,	Foreman, B. & A. Shops, West Springfield.
Kirsch, Forrest G.,	393 St. James ave.,	Manager, 40 Liberty st.
Kittredge, Everett A.,	24 Sumner ave.,	Salesman, 278 Congress st., Boston.
Kling, Elmer M.,	46 Bancroft st.,	Clerk, foot Church st., West Springfield.
Knapp, Forrest R.,	97 Spring st.,	Bank Clerk, 427 Main st.
Knight, Edwin Leroy,	71½ Adams st.,	Grocer, 610 Main st.
Knowlton, Ray W.,	19 Wilbraham ave.,	Machinist, 837 State st.
Knox, James E.,	45 Portland st.,	Carpenter, 132 Cass st.
Kuenzel, Christopher W.,	12 Goodrich st.,	Watch Repairer, 119 State st.
Kuhn, Albert M.,	65 Grand st.,	Shipping Clerk, 109 Mill st.
Kuhn, Ernest H.,	55 Harriet st.,	Foreman, 149 Wason ave.
Labrie, Amedee A.,	45 Chester st.,	Teamster, 430 Mill st.
Lacross, John J.,	69 Shamrock ave.,	Die Sinker, 294 Plainfield st.
Laird, Charles H.,	8 Randall ave.,	Carpenter, 739 Worthington st.
Lamb, James L.,	53 Bradford st.,	Clerk, 377 Main st.
Lambert, Paul E.,	217 Center st.,	Teamster, 143½ Main st., I. O.
Lamothe, Fred L.,	200 Westford ave.,	Tool Maker, Stockbridge st.
Lampson, George S.,	124 Buckingham st.,	Real Estate Dealer, 310 Main st.
Landerfin, George W.,	122 Margaret st.,	Motorman, 5 North Main st.
Landreville, George E.,	40 Water st., I. O.,	Weaver, Indian Orchard Co., I. O.
Lane, Elmer G.,	34 Chapin ter.,	Receiving Clerk, 354 Birnie ave.
Langford, Joseph H.,	253 Belmont ave.,	Plumber, Westfield.
Lantz, Arthur H.,	49 Kenwood Park,	Manager, 30 Harrison ave.
LaPlant, Arthur W.,	134 Parker st.,	Machinist, 18 Bridge st., Chicopee Falls.
Larcher, William R.,	27 Ledyard st.,	Chauffeur, 26 Lyman st.
LaRiviere, Joseph M.,	178 Boston road,	Peddler, 178 Boston road.
Larkin, John W.,	37 Douglas st.,	Real Estate Dealer, 37 Douglas st.
Larose, Amos,	25 Water st., I. O.,	Painter, Indian Orchard Co., I. O.
Lasker, Morris,	18 Congress st.,	Traveling Salesman, Sirkin & Sirkin, 865 Broadway, N. Y.
Lavalle, Albert H.,	14 Parkwood st.,	Engineer, 274 Main st.
Lawler, Maurice J.,	104 Congress st.,	Signalman, B. & A. R. R.
Lawless, James F.,	52 Vinton st.,	Plumber, 31 Sanford st.
Lawrence, Joseph A.,	27 Kenwood ter.,	Clerk, 837 State st.
Lazenby, Clifford H.,	206 High st.,	Clerk, 29 Worthington st.
Leary, Eugene C.,	60 Pearl st.,	Jeweler, 162 State st.
Leary, John C.,	83 Acushnet ave.,	Grocer, 694 Main st.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Lee, Clyde S.,	142 State st.,	Manager, 489 Main st.
Leeds, Alfred,	27 Ridgewood ter.,	Paper Manufacturer, Worthy Paper Co., Mittineague.
Leeman, Orville I.,	15 Richelieu court,	Merchant, 33 Elm st.
Legein, Armand J.,	50 Howard st.,	Ice Cream Maker, 50 Howard st.
Legein, Fernand C.,	23 Warriner ave.,	Ice Cream Maker, 50 Howard st.
Leighton, Percy A.,	292 Orange st.,	Pharmacist, 21 White st.
Leonard, Edwin F.,	348 Carew st.,	Druggist, 72 Main st.
Leonard, John W.,	140 Franklin st.,	Conductor, 5 North Main st.
Lester, John J.,	843 Chestnut st.,	Real Estate Dealer, 843 Chestnut st.
Lester, William M.,	121 Harvard st.,	Manager, 338 Worthington st.
Levesque, Frederick W.,	115 Berkshire st.,	Electrician, 216 Dwight st.
Levesque, Henry J.,	50 Quebec st.,	Machinist, N. E. Westinghouse Co., Chicopee Falls.
Lewis, Meddie J.,	60 Foster st.,	Salesman, 85 Warwick ave.
Lewis, William C.,	40 Revere st.,	Painter, 837 State st.
Linnehan, Jeremiah J.,	34 Ashley st.,	Butcher, 34 Ashley st.
Livingston, Frank W.,	136 College st.,	Contractor, 136 College st.
Lloyd, Harry R.,	25 Vassar st.,	Editor, 387 Main st.
Locke, Walter M.,	41 Chase ave.,	Counterman, 329 Main st.
Lockwood, Brower E.,	23 Pearl st. place,	Manager, 340 Bridge st.
Lombard, Ralph E.,	76 Magnolia ter.,	Real Estate, 31 Elm st.
Long, David J.,	28 Queen st.,	Painter, 11 Bowdoin st.
Lord, Eugene A.,	292 Main st., I. O.,	Printer, 292 Main st., I. O.
Lorenzi, Ulysses J.,	122 Chestnut st.,	Treasurer, 192 Worthington st.
Lorette, John B.,	193 Tyler st.,	Machinist, N. E. Westinghouse Co., East Springfield.
Lougee, Henry M.,	191 Wilbraham ave.,	Motorman, 5 North Main st.
Lovett, George P.,	490 Chestnut st.,	Salesman, 145 North Washington st., Boston.
Lovett, Thomas H.,	28 Leonard st.,	Foreman, 662 North Main st.
Lucey, Frank J.,	643½ Main st.,	Counterman, 516 Main st.
Ludwig, William J.,	11 Columbia ter.,	Tool Maker, N. E. Westinghouse Co., East Springfield.
Lupien, John B.,	484 White st.,	Painter, 484 White st.
Lyman, George M.,	34 Coleman st.,	Wood Dealer, 34 Coleman st.
Lynch, Edward O.,	174 Alden st.,	Engineer, Hampton Co., Easthampton.
Lynch, Eugene G.,	129 Essex st., I. O.,	Foreman, Indian Orchard Co., I. O.
Lynch, Michael D.,	52 Howard st.,	Collector, 540 Main st.
Lyon, Edmond L.,	19 Hastings st.,	Machinist, N. E. Westinghouse Co., East Springfield.
Lyons, Charles E.,	45 Ledyard st.,	Foreman, 116 Liberty st.
Lyons, Charles R.,	23 Holyoke st.,	Painter and Paper Hanger, 23 Holyoke st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Lyons, Dennis F.,	19 Ladd st.,	Mason, 499 Main st.
Lyons, James,	562 Armory st.,	Teamster, 54 Fort st.
MacAuley, Charles B.,	36 Norfolk st.,	Accountant, N. E. Westinghouse Co., East Springfield.
Mackie, Thomas Bell,	68 Willard ave.,	Salesman, Nashua, N. H.
Madden, Michael J.,	276 Armory st.,	Lithographer, Heywood st.
Magowan, Franklin Earl,	73 Avon place,	Printer, 292 Main st.
Maguire, Thomas P.,	559 Main st.,	Painter, 79 Central st.
Mahoney, Daniel,	356 Franklin st.,	Sanitary Inspector, Municipal Bldg.
Mahoney, Daniel B.,	134 Woodmont st.,	Assistant Foreman, 279 Dwight st.
Mahoney, James M.,	59 Walnut st.,	Packer, 472 Union st.
Maillett, Moses,	354 Bridge st.,	Tailor, 367 Main st.
Main, Frederick W.,	19 Berkeley st.,	Salesman, Worthy Paper Co., Mittineague.
Makepeace, George G.,	179 Oak st., I. O.,	Unemployed.
Mallette, Jason B.,	321 St. James ave.,	Salesman, 392 Main st.
Mallory, Louis E.,	35 High st.,	Real Estate Broker, 318 Main st.
Maloney, James T.,	16 Vinton st.,	Teamster, 54 Fort st.
Manchester, William E.,	56 Malden st.,	Chauffeur, 302 Locust st.
Manley, Gilbert E.,	185 Belmont ave.,	Clerk, 141 Lyman st.
Manning, James P.,	61 Linden st.,	Electrician, 499 Main st.
Manning, John J.,	34 Bancroft st.,	Repairman, 86 Bridge st.
Manning, Thomas,	103 Patton st.,	Manager, 442 Worthington st.
Mannix, John T.,	30 Church st.,	Chef, 84 State st.
Mannix, Timothy F.,	38 Ozark st.,	Driver, 27 Lyman st.
Mansur, Fred W.,	60 Sherman ave.,	Stationary Engineer, Fisk Rubber Co., Chicopee Falls.
Marchese, Oresto,	155 Spring st.,	Tailor, 264 Main st.
Marengo, Henry,	17 Thomas st.,	Painter, 17 Thomas st.
Maroney, John,	22 Queen st.,	Assembler, N. E. Westinghouse Co., East Springfield.
Marsh, Edward H.,	51 Washington road,	Advertising, 21 Besse place.
Marsh, Edward S.,	46 Bond st.,	Conductor, 5 North Main st.
Marsh, George W.,	17 Congress st.,	Painter, 15 Market st.
Marshall, John E.,	617½ Main st.,	Shipping Clerk, 390 Main st.
Marshman, Arthur R.,	135 Spring st.,	Merchant, 286 Main st.
Martin, Walter A.,	63 Palmer ave.,	Clerk, Fisk Rubber Co., Chicopee Falls.
Marvin, Norman E.,	14 Kendall ave.,	Plumber, 10 Morgan st.
Maxfield, Frank C.,	10 Sumner ave.,	Receiving Clerk, 392 Main st.
Maxfield, Samuel W.,	108 North Main st.,	Agent, 38 Harrison ave.
Mayer, Carl August,	47 Merwin st.,	Superintendent, Bosch Magneto Co., North Main st.
Mayforth, George J.,	94 Eastern ave.,	Pressman, 381 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Mayo, George E.,	Stebbins place,	Screw Machine Operator, 837 State st.
Mayo, Leslie A.,	54 Saratoga st.,	Machinist, Stockbridge st.
McAnanama, John J.,	27 Genesee st.,	Printer, 381 Main st.
McBride, Daniel,	506 Liberty st.,	Taxi Business, 506 Liberty
McCabe, Frank J.,	231 Orange st.,	Baker, 233 Orange st.
McCabe, John F.,	31 Maple st.,	Purchasing Agent, 801 Main st.
McCaffrey, John J.,	57 Narragansett st.,	Merchant, 8 Main st.
McCann, Edward T.,	158 Walnut st.,	Skilled Laborer, 837 State st.
McCarthy, Charles,	67 Linden st.,	Watchman, Fisk Rubber Co., Chicopee Falls.
McCarthy, Charles F.,	18 Crane st.,	Clerk, 236 Main st.
McCarthy, Daniel F.,	1109 North st.,	Motorman, 5 North Main st.
McCarthy, Daniel J.,	20 Huntington st.,	Printer, 220 Franklin st.
McCarthy, Daniel J.,	12 Demond ave.,	Motorman, 5 North Main st.
McCarthy, Timothy,	18 Crane st.,	Foreman, 195 Armory st.
McCarty, Fred D.,	40 Locust st.,	Clerk, 399-401 Main st.
McCarty, Joseph C.,	671 Belmont ave.,	Manufacturer, 30 Taylor st.
McClellan, Frederick C.,	101 Spring st.,	Steam Heating, 31 Sanford st.
McClendon, Henry C.,	153 State st.,	Barber, 153 State st.
McCombe, David,	16 Portland st.,	Office Manager, 4 Birnie ave.
McCombe, Joseph,	22 Donald st.,	Clerk, 156 Wason ave.
McCormick, Edward J.,	15 Arbor st.,	Slating Contractor, 15 Arbor st.
McCormick, John F.,	405½ Chestnut st.,	Roofer, About the City.
McCormick, John J.,	49 Worcester ave.,	Printer, 53 Hillman st.
McCormick, Joseph,	99 Central st.,	Sheet Metal Worker, 126 State st.
McCowan, Horace D.,	26 Marlboro ave.,	Teller, 500 Main st.
McDonald, Henry C.,	104 Fort Pleasant ave.,	Manager, 256 Main st.
McDonald, Michael J.,	28 Roseland st.,	Motorman, 5 North Main st.
McDonough, Hugh J.,	199 Eastern ave.,	Merchant, 199 Eastern ave.
McElwain, Guy S.,	25 Pomona st.,	Printer, 11 Stearns sq.
McFaul, Charles R.,	154 Oak Grove ave.,	Bookkeeper, 850 State st.
McGovern, Francis,	79 Monroe st.,	Tire Maker, Fisk Rubber Co., Chicopee Falls.
McGrath, James F.,	14 Massasoit pl.,	Assembler, Bosch Magneto Co., North Main st.
McGrath, John E.,	176 Abbe ave.,	Tobacco Stripper, 23 Hampden st.
McIntosh, David Morrison,	7 Quebec st.,	Machinist, Pine st., I. O.
McIntyre, George W.,	174 Bowdoin st.,	Clerk, Bosch Magneto Co., North Main st.
McKenna, Maurice Paul,	49 Prospect st.,	Bartender, 190 Main st.
McKenna, Thomas H.,	12 Hancock st.,	Agent, Wilbraham rd.
McKenzie, Andrew, Jr.,	292 Bridge st.,	Janitor, 293 Bridge st.
McKenzie, George E.,	134 Hampshire st.,	Toolmaker, N. E. Westinghouse Co., East Springfield.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
McKeon, Michael,	12 Monroe st.,	General Stable Work, 24 Hancock st.
McKeon, Thomas,	59 Genesee st.,	Bartender, 685 North st.
McKinney, Edward J.,	28 Alden st.,	Chauffeur, 87 Bridge st.
McKinnon, James,	57 High st.,	Photo Engraver, 257 Main st.
McMaster, Charles M.,	208 Hancock st.,	Hand Sander, N. E. Westinghouse Co., East Springfield.
McNulty, Michael H.,	6 Portland st.,	Salesman, 904 Main st., Hartford; Conn.
McVeigh, Joseph C.,	56 Dartmouth st.,	Manager, 194 Lyman st.
Meaney, John F.,	129 Colton st.,	Baker, 489 Main st.
Meehan, Frank T.,	42 Ringgold st.,	Foreman, Street Dept., City.
Meehan, William H.,	129½ Essex st.,	Cigar Maker, 127½ Essex st.
Menzel, Richard Ernest,	104 Tyler st.,	Baker, 357 Chestnut st.
Merriman, Frank E.,	93 Middlesex st.,	Carpenter, 837 State st.
Merriam, G. Frank,	205 Florida st.,	President, Fisk ave.
Metcalf, Philip S.,	730 Sumner ave.,	Foreman, Cross st.
Mieliez, Fred,	85 Main st.,	Tinsmith, 19 Bond st.
Milbier, Eugene J.,	86 Armory st.,	Plumber, 17 Princeton st.
Miller, Fred N.,	Maple and Central sts.,	Clerk, 373 Main st.
Millette, Arthur H.,	131 Spring st.,	Contractor, National Blank Book, Holyoke.
Missett, Victor W.,	185 Allen st.,	Plumber, 28 Market st.
Mitchell, Fred D.,	34 Lyndale st.,	Stationer, 182 Worthington st.
Mitchell, Patrick J.,	145 Bond st.,	Merchant, 232 Chestnut st.
Moody, Roscoe R.,	77 Dartmouth st.,	Broker, 387 Main st.
Moore, Burton H.,	11 Marble st.,	Printer, 7 Worthington st.
Moore, Burton R.,	942 State st.,	Clerk, N. E. Westinghouse Co., Chicopee Falls.
Moore, Edward P.,	157 Kensington ave.,	Mason, 150 Birnie ave.
Moore, Newton C.,	36 Andrew st.,	Clerk, Water Dept.
Moore, Richard G.,	37 Forest st.,	Carpenter, 264 Main st.
Moran, Patrick J.,	20 Essex st.,	Laborer, City of Springfield.
Moreau, Charles L.,	22 Franklin st.,	Foreman, 236 Main st.
Morgan, John H.,	72 Tenth st.,	Blacksmith, 163 Lyman st.
Morgan, Paul,	49 Rutledge ave.,	Carpenter, Unemployed.
Moriarty, Ambrose,	74 Charles st.,	Clerk, N. Y., N. H. & H. R. R., Water st.
Moriarty, Daniel,	54 Murray Hill ave.,	Yard Clerk, B. & A. R. R., Charles st.
Moriarty, James Joseph,	124 Everett st.,	Blacksmith, 18 Liberty st.
Moriarty, John J.,	74 Bradford st.,	Machinist, B. & A. R. R.
Moriarty, Thomas J.,	67 Morris st.,	Foreman, 33 Morris st.
Moriarty, Thomas T.,	19 Portsmouth st.,	Retired.
Morrill, Herman M.,	888 State st.,	Clerk, N. Y., N. H. & H. R. R., Water st.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Morris, Frederick S.,	18 Catharine st.,	Baker, 812 State st.
Morris, George H.,	367 Belmont ave.,	Manager, 3 P. O. Square.
Morrissey, James R.,	246 Main st., I. O.,	Merchant, 141 Main st., I. O.
Morse, Frank R.,	31 Salem st.,	Merchant, 376 Main st.
Morse, John M.,	30 Bease pl.,	Florist, 372 Main st.
Mossman, William M.,	26 Bease pl.,	Bookkeeper, 500 Main st.
Motherway, James V.,	33 Plymouth st.,	Steamfitter, 26 Willow st.
Moulton, Scott H. R.,	86 Armory st.,	Chauffeur, 569 Worthington st.
Mowry, Raymond M.,	12 King st.,	Draftsman, 310 Main st.
Moynihan, Jeremiah J.,	28 Cherryvale ave.,	Treasurer, 265-267 Sumner ave.
Moynihan, Patrick J.,	78 Alexander st.,	Shipping Clerk, 174 Lyman st.
Muir, Walter,	15 Wellington st.,	Buyer, 396 Main st.
Mullins, Walter H.,	64 Lyndale st.,	Bond Salesman, 64 Lyndale st.
Munder, Charles F.,	69 Maplewood ter.,	Manufacturer, 30 Taylor st.
Munger, Fred B.,	78 Drexel st.,	Foreman, 48 Harrison ave.
Munn, Eugene H.,	42 Mapledell st.,	Editor, 292 Main st.
Munson, Harold W.,	126 Walnut st.,	Machinist, Stockbridge st.
Munyan, Fred C.,	82 Alderman st.,	Manager, 272 Main st.
Murphy, Dennis G.,	22 Plymouth st.,	Cigar Maker, 16 Main st.
Murphy, John H.,	70 Grosvenor st.,	Plumber, B. & M. R. R.
Murphy, John Joseph,	520 Armory st.,	Brewery Worker, 175 Liberty st.
Murphy, Philip,	117 Westminster st.,	Manager, 396 Main st.
Murphy, Redmond,	133 Franklin st.,	Blacksmith, B. & A. R. R. Shops, West Springfield.
Murray, John R.,	74 Euclid ave.,	Cigar Packer, Westfield.
Nash, Robert F.,	519 Berkshire ave.,	Superintendent, foot Church st., West Springfield.
Naughton, Lewis H.,	105 Stockman st.,	Tool Maker, Chandler Co., Napier st.
Needham, Lawton Brooks,	29 Arch st.,	Clerk, 318 Main st.
Neilon, John J.,	117 Cass st.,	Conductor, 5 North Main st.
Nevins, Daniel,	115 Hampden st., I. O.,	Moulder, Pine st., I. O.
Newman, J. Willis,	76 Byers st.,	Electrician, 205 Worthington st.
Newton, Chester P.,	627 Chestnut st.,	Engineer, 318 Main st.
Newton, Lewis E.,	139 Magnolia ter.,	Builder, 150 Birnie ave.
Nichols, John A.,	111 Euclid ave.,	Real Estate, 111 Euclid ave.
Nichols, LaRoy,	95 Jefferson ave.,	Carpenter, 95 Jefferson ave.
Niles, Orville W.,	43 Calhoun st.,	Retired.
Nolan, Daniel J.,	40 Franklin st.,	Blacksmith, 11 Bond st.
Nolan, James,	80 Alden st.,	Hostler, 54 Fort st.
Nolan, Walter A.,	204 Center st.,	Bookkeeper, N. E. Westinghouse Co.
Norman, Charles S.,	15 Middlesex st.,	Machinist, N. E. Westinghouse Co.,
Norman, Ernest J.,	230 White st.,	Grocer, 232 White st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Norton, Gideon R.,	193 Oak Grove ave.,	Bookkeeper, Fisk Rubber Co., Chicopee Falls.
Norton, Horatio G.,	245 Wilbraham rd.,	Telephone Installer, 283 Worthington st.
Norton, James D.,	Court Square Hotel,	Clerk, 118 Fisk ave.
Norton, William H.,	414 North Main st.,	Bookkeeper, 396 Main st.
Not, Roy Hiram,	34 Albemarle st.,	Optician, 471 Main st.
Ober, Amos T.,	33 Douglas st.,	Foreman, 68 Birnie ave.
O'Brien, Francis R.,	280 Franklin st.,	Clerk, B. & A. Freight Office, Charles st.
O'Brien, John J.,	26 Washburn st.,	Manager, 437 Main st.
O'Brien, Joseph A.,	560 Liberty st.,	Salesman, Heywood st.
O'Brien, Patrick J.,	52 Belmont ave.,	Merchant, 685 North st.
O'Brien, Patrick Joseph,	139 Wilbraham ave.,	Marble Setter, 274 Main st.
O'Brien, Timothy J.,	26 Demond ave.,	Motorman, 5 North Main st.
Ochsner, George,	15 Broad st.,	Baker, 804 Main st.
O'Connell, Charles F.,	122 Patton st.,	Salesman, 349-359 Main st.
O'Connell, Edward J.,	410 Liberty st.,	Timekeeper, 495 Main st.
O'Connell, John,	58 Locust st.,	Haberdaasher, 311 Main st.
O'Connell, John P.,	427 Chestnut st.,	Molder, Page Boulevard.
O'Connell, J. William,	83 St. James ave.,	Druggist, 477 State st.
O'Connell, Maurice J.,	23 Murray Hill ave.,	Mason, 23 Murray Hill ave.
O'Connell, Patrick J.,	136 Congress st.,	Inspector, 88 Birnie ave.
O'Connor, Bernard A.,	39 Murray Hill ave.,	Barber, 144 Main st.
O'Connor, Edward E.,	63 Lowell st.,	Machinist, 156 Wason ave.
O'Connor, Edward W.,	39 Murray Hill ave.,	Manager, 144 Main st.
O'Connor, James Michael,	136 Greenwood st.,	Iron Worker, 138 Taylor st.
O'Connor, William H.,	59 Sorrento st.,	Linotype Operator, 292 Main st.
O'Donnell, Bartholomew J.,	250 Franklin st.,	Foreman, 23 State st.
Ogden, Frank B.,	N. S. Boston rd.,	Poultry Raiser, N. S. Boston rd.
O'Hanlon, John F.,	5 St. James ave.,	Salesman, 943 Worthington st.
O'Hare, Patrick J.,	733 Carew st.,	Cutter, Heywood st.
O'Leary, John J.,	200 Walnut st.,	Clerk, 10 Broadway.
Oliver, Mitchell W.,	31 Saratoga st.,	Clerk, 53 Sumner ave.
Olson, Carl Themoteus,	97 Florida st.,	Chauffeur, 97 Florida st.
O'Malley, Patrick J.,	18 Grover st.,	Machinist, Unemployed.
O'Neill, John Francis,	350 King st.,	Bartender, 64 Dwight st.
Ouellette, Alphonse F.,	115 Eastern ave.,	Barber, 7 Railroad st.
Ouimette, George,	53 Wilbraham rd.,	Ice Business, 1132 St. James ave.
Paige, Otis L.,	103 Central st.,	Painter, 675 Main st.
Paige, Ralph H.,	S. S. Buena Vista Plaza,	Retired.
Paine, Earl H.,	100 Ashley st.,	Bank Teller, 500 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Paine, Harold W.,	132 Myrtle st., I. O.,	Chemist, Worcester st., I. O.
Palmer, Charles A.,	790 Liberty st.,	Foreman, 902 Main st.
Parker, John W.,	302 Bay st.,	Agent, 302 Bay st.
Parker, Orville F.,	800 Sumner ave.,	Traveling Salesman, 800 Sumner ave.
Parks, George H.,	31 Charter ave.,	Night Watchman, 340 Main st.
Parks, William H.,	148 Forest Park ave.,	President, 343 Bridge st.
Parsons, Frederick D.,	269 Union st.,	Insurance, 414 Main st.
Patenaude, Charles A.,	40 Florida st.,	Barber, 168½ State st.
Patrell, Oliver L.,	390 Hancock st.,	Baker, 398 Hancock st.
Payne, George H.,	852 Belmont ave.,	Sign Painter, 486 Main st.
Pearson, Charles,	29 Warriner ave.,	Cigar Maker, Unemployed.
Pease, James H.,	115 Essex st., I. O.,	Electrician, U. E. Light Station, I. O.
Peirce, Charles L.,	134 Magnolia ter.,	Real Estate Agent, 385 Main st.
Pelkey, George Albert,	363 North Main st.,	Retired Real Estate Dealer.
Pelletier, Edward E.,	61 High st.,	Manager, 327 Main st.
Pellissier, George E.,	14 Fairfield st.,	Manager, 317 Main st.
Penn, Marcus.,	533 Dickinson st.,	Real Estate Dealer, 533 Dickinson st.
Perkins, Arthur E.,	69 Union st.,	Salesman, Baltimore, Md.
Perkins, Clarence E.,	101 Yale st.,	Machinist, Stockbridge st.
Perrin, Frank V.,	147 Belmont ave.,	Auditor, 264 Main st.
Perry, Bertrand J.,	19 Bedford rd.,	Asst. Secretary, 500 Main st.
Peterson, Arthur W.,	318 Dwight st.,	Cigar Maker, 479 Main st.
Petit, Leon, Jr.,	21 Wendell ave.,	Clerk, 340 Main st.
Phelan, Edward J.,	162 Eastern ave.,	Barrel Dealer, 162 Eastern ave.
Phillips, Arthur E.,	85 Belmont ave.,	Compositor, 292 Main st.
Phillips, George H.,	255 Main st., I. O.,	Clerk, Hodges Carpet Co., I. O.
Phillips, Paul H.,	196 Jasper st.,	Gauge Maker, N. E. Westinghouse Co., Chicopee Falls.
Pierce, Raymond T.,	12 Harriet st.,	Teamster, 241 North Main st.
Pierrepont, Herbert M.,	31 Bancroft st.,	Tool Maker, Excelsior Needle Co., Chicopee.
Pike, Lewis A.,	1663 North st.,	Foreman, 214 Birnie ave.
Pinney, Frederick W.,	724 Sumner ave.,	Clerk, 96 State st.
Pinney, Howard D.,	24 Acorn st.,	Machinist, 130 Birnie ave.
Plummer, John D.,	2 Glen rd.,	Publisher, 292 Main st.
Pomeroy, Edward S.,	3 Burton st.,	Superintendent, 38 Stockbridge st.
Poole, James C.,	24 Besse pl.,	Merchant, 338 Main st.,
Porter, Edwin T.,	24 Lyndale st.,	Traveling Salesman, Boston.
Porter, Robert,	47 Vinton st.,	Clerk, 294 Franklin st.
Porter, Walter J.,	43 Broad st.,	Brazer, 12 Willow st.
Potter, Adrian L.,	4 Chestnut st.,	Clerk, 31 Elm st.
Potter, Charles S.,	38 Westford ave.,	Manager, 850 State st.
Potter, Clifford B.,	269 Long Hill st.,	Manufacturer, 902 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Potter, Herbert H.,	181 High st.,	Carpenter, 181 High st.
Powell, Edwin J.,	34 Princeton st.,	Painter, 34 Princeton st.
Powell, Thomas D.,	55 Marsden st.,	Christian Science Practitioner, 21 Besse place.
Powers, J. Augustus,	47 Portland st.,	Shipping Clerk, A. G. Spalding Co., Chicopee.
Pratt, George Dwight,	120 Maple st.,	Retired.
Prenderville, John W.,	77 Franklin st.,	Foreman, Union R. R. Station.
Prentice, Herbert H.,	190 Oak st., I. O.,	Bookkeeper, Indian Orchard Co., I. O.
Prentice, Norman A.,	47 Dartmouth st.,	Retired.
Prentice, Thomas,	88 Oak Grove ave.,	Tire Inspector, Fisk Rubber Co., Chicopee Falls.
Preston, George S.,	95 Mapledell st.,	Conductor, 5 North Main st.
Prickett, Waldo P.,	231 Belmont ave.,	Agent, 93 Broad st.
Proctor, Charles B.,	257 Fort Pleasant ave.,	Broker, 476 Main st.
Prouty, Alfred W.,	55 Rochelle st.,	Salesman, 424 Main st.
Puffer, Herbert R.,	138 Harvard st.,	Grain Dealer, 194 Lyman st.
Putnam, Merton J.,	22 Winthrop st.,	Printer, foot of Howard st.
.		
Quigley, William A.,	20 Dunmoreland st.,	Photo Engraver, 3 Post Office sq.
Quinlan, Thomas W. A.,	315 Worcester st.,	Foundryman, Pine st., I. O.
Quinlivan, Edward G.,	4 Eagle st.,	Watchman, B. & M. R. R.
Quinlivan, Thomas F.,	31 Bartlett st.,	Inspector, Fisk Rubber Co., Chicopee Falls.
Quirk, James J.,	223 Plainfield st.,	Electrical Engineer, 195 Armory st.
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Radasch, David E. F.,	103 Spring st.,	General Agent, 103 Spring st.
Raleigh, William T.,	118 Massachusetts ave.,	Clerk, 349-359 Main st.
Ramsay, James,	251 Mill st.,	Steamfitter, 550 State st.
Ramsdell, Charles W.,	34 Virginia st.,	Inspector, N. E. Westinghouse Co., East Springfield.
Randall, Clarence T.,	133 Wilbraham ave.,	Sheet Metal Worker, N. E. Westing- house Co., East Springfield.
Randall, Fred C.,	44 Washington st.,	Clerk, 618 Belmont ave.
Ransehousen, Lyman A.,	147 Belmont ave.,	Insurance Agent, 147 Belmont ave.
Rauch, Charles,	64 Bevier st.,	Cigar Maker, Cassidy Bros., Sheldon st.
Rayner, William T.,	47 Churchill st.,	Clerk, foot Church st., West Springfield.
Reade, Thomas N.,	22 Greenwich st.,	Motorman, 5 North Main st.
Reardon, William M.,	33 Myrtle st.,	Floor Walker, 394 Main st.
Reed, Benjamin G.,	675 State st.,	Tester, 837 State st.
Relihan, Charles F.,	396 Union st.,	Grocer, 890 State st.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Remington, Philip H.,	198 Florida st.,	Charcoal Broker, 317 Main st.
Rennison, Thomas W.,	8 Huntington st.,	Insurance Agent, 500 Main st.
Reynolds, Martin B.,	19 Ripley place,	Bookkeeper, 396 Main st.
Rice, Clarence A.,	15 Summit st.,	Commercial Photographer, 29 Worthington st.
Rice, Donald B.,	58 Virginia st.,	Insurance Clerk, 192 State st.
Rice, Fred E.,	28 Acushnet ave.,	Inspector, Broad and Hanover sts.
Rice, Harold F.,	329 Central st.,	Driver, 100 Oakland st.
Rice, Ned C.,	89 Catharine st.,	Engineer, Technical High School.
Rice, Walter F.,	53 Atwater ter.,	Treasurer, 307 Main st.
Richards, Harold H.,	43 Massachusetts ave.,	Publisher, 43 Massachusetts ave.
Richards, Harry J.,	11 Murray Hill ave.,	Druggist, 194 Main st.
Richards, Joel R.,	23 Orleans st.,	Mechanic, 19 Orleans st.
Richmond, Arba E.,	112 Maynard st.,	Machinist, 837 State st.
Rickson, Edward L.,	145 Main st., I. O.,	Shop Hand, Fiberloid Co., I. O.
Riley, George W.,	152 Pendleton ave.,	Hoisting Engineer, Unemployed.
Riopell, Fred,	W. S. Sixteen Acres road,	Laborer, 61 Taylor st.
Rivers, Peter A.,	66 Pyncheon st.,	Garage Owner, Federal and Summer sts.
Robbins, H. Earle,	917 State st.,	Manager Claim Dept., 837 State st.
Robbins, Henry G.,	152 Oak st., I. O.,	Merchant, 451 Parker st., I. O.
Roberts, Arthur J.,	48 Boylston st.,	Chauffeur, 44 Pyncheon st.
Roberts, William W.,	132 Johnson st.,	Chauffeur, 424 Main st.
Robertson, George Brown,	169 Hampshire st.,	Machinist, Pine st., I. O.
Robertson, James,	145 Worcester st.,	Clerk, B. & A. Station, I. O.
Robinson, Daniel E.,	25 North Main st.,	Salesman, 187 Chestnut st.
Robinson, Edward G.,	73 Drexel st.,	Engineer, Unemployed.
Roche, William M.,	28 Pleasant st.,	Clerk, 500 Main st.
Rockwell, John F.,	786 State st.,	Salesman, 346 Main st.
Rodgers, Clarence M.,	27 Forest Park ave.,	Salesman, Hartford, Conn.
Rodhouse, Walter F.,	574 Chestnut st.,	Manufacturer, 216 Worthington st.
Roger, Alphonse,	19 Central st.,	Barber, 168½ State st.
Rogers, Frank H.,	11 Woodbine ave.,	Auto Top Cutter, 55 Dwight st.
Rogers, John O.,	119 Hampden st., I. O.,	Mill Hand, Hodges Fiber Co., I. O.
Rollins, Harvey E.,	14 Osgood st.,	Clerk, 138-144 Main st.
Roper, William N.,	70 Pearl st.,	Pattern Maker, 405 Worthington st.
Rose, William L.,	79 Pyncheon st.,	Shipper, 396 Main st.
Rosenberg, Frederick W.,	68 Cambridge st.,	Material Accountant, 495 Main st.
Rosenberg, Frederick W.,	56 Forest st.,	Manager, 348 Main st.
Ross, Albert J.,	66 Cherry st.,	Foreman, 36 Lyman st.
Ross, Frank G.,	31 Market st.,	Teamster, 24 Lyman st.
Ross, Harry L.,	36 Brown st.,	Machinist, Stockbridge st.
Ross, Harry Leroy,	43 Northampton ave.,	Proprietor, 140 State st.
Ross, Richard S.,	61 Westford ave.,	Treasurer, 140 State st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Ross, William E.,	52 Clarendon st.,	Clerk, 500 Main st.
Roy, Joseph G.,	907 Armory st.,	Contractor, 907 Armory st.
Roy, Pierre V.,	574 Carew st.,	Baker, 123 Carew st.
Ruggles, Carlos, Jr.,	29 Sherman st.,	Bookkeeper, 480 Main st.
Rumrill, Herbert E.,	147 Belmont ave.,	Manager, 129 State st.
Ruppel, John W.,	63 Patton st.,	Storekeeper, 169 Main st.
Rush, Christian,	54 Bristol st.,	Real Estate Broker, 54 Bristol st.
Rush, Deane F.,	30 Hunter place,	Real Estate Agent, 274 Main st.
Russell, Edwin J.,	7 Lillian st.,	Janitor, 622 North Main st.
Russell, George E.,	14 Brunswick ave.,	Motorman, 5 North Main st.
Russell, Herbert A.,	44 Clark st.,	Insurance Superintendent, 29 Worthington st.
Russell, Patrick W.,	33 Broad st.,	Grocer, 825 Main st.
Russell, Thomas F.,	359 Belmont ave.,	Auto Exchange, 71 Summer st.
Ruxton, Edward J.,	118 Washington road,	Contractor, 33 Lyman st.
Ryan, Patrick J.,	41 Orleans st.,	Tool Maker, Unemployed.
Sackett, Herbert H.,	47 Cedar st.,	Machine Operator, Stockbridge st.
Sackett, Herbert R.,	77 Horace st.,	Auto Salesman, 33 Winter st.,
Sackett, Nathaniel P.,	74 Ventura st.,	Salesman, 68 Bridge st.
Sanderson, Clifford W.,	127 Spring st.,	Chemist, Fisk Rubber Co., Chicopee Falls.
Sanderson, Henry C.,	19 Parkwood st.,	Clerk, 53 Wilbraham road.
Sandquist, Charles T.,	52 High st.,	Electrotypist, 279 Dwight st.
Satchwell, Charles C.,	74 Florence st.,	Salesman, 311-313 Main st.
Saunders, John A.,	19 Middlesex st.,	Tool Maker, Stockbridge st.
Sawhill, Clarence V.,	175 St. James ave.,	Publisher, 368 Main st.
Sayre, Russell C.,	30 Bradford st.,	Teller, 32 Vernon st.
Scagliarini, Americo,	132 Armory st.,	Printer, 53 Hillman st.
Schermerhorn, John D.,	403 Walnut st.,	Steamfitter, 837 State st.
Scheuing, Louis C.,	320 Union st.,	Treasurer, 93-95 Orleans st.
Schott, Eugene,	18 Lebanon st.,	Butcher, 45 Hampden st.
Schubert, Richard,	33 High st.,	Piano Instructor, 33 High st.
Score, Alfred Alma,	17 Marble st.,	Carpenter, 116 Liberty st.
Seager, Albert L.,	93 Park st.,	Manager, 521 Worthington st.
Searles, Stanley W.,	18 Berkeley st.,	Jeweler, 471 State st.
Seaver, Blake A.,	41 Greenwich st.,	Draftsman, 310 Main st.
Seaver, Frederic L.,	54 Chase ave.,	Bookkeeper, 17 Harrison ave.
Sedelow, Albert F.,	181 Worcester st.,	Tool Maker, N. E. Westinghouse Co.,
Sedelow, Fred,	232 Parker st.,	Machinist, Pine st., I. O.
Severance, Frederick A.,	20 Mattoon st.,	Insurance Broker, 426 Main st.
Sexton, Michael,	23 Prince st.,	Engineer, 260 State st.
Seymour, Gordon H.,	33 Avon place,	Manager, 40 Bliss st.
Shaftoe, Harold R.,	21 Pomona st.,	Machinist, 97 Wason ave.

NAME	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Shannon, Oliver C.,	45 King st.,	Carpenter, 393 Birnie ave.
Shattuck, Raymond B.	183 Florida st.,	Manager, 293 Bridge st.
Shaw, Albert D.,	282 Pine st.,	Clerk, 500 Main st.
Shaw, Albert E.,	49 Oak st., I. O.,	Unemployed.
Shaw, Frank E.,	34 Congress st.,	Baker, 289 Main st.
Shaw, Harry,	231 Main st., I. O.,	Mill Hand, Indian Orchard Co., I. O.
Shea, Barry W.,	52 Acushnet ave.,	Bricklayer, Unemployed.
Shea, Edward J.,	67 Oak st.,	Salesman, 148 Lyman st.
Shea, Edward P.,	427 Chestnut st.,	Electrician, Fisk Rubber Co., Chicopee Falls.
Shea, Jeremiah G.,	1308 North st.,	Bricklayer, 495 Main st.
Shea, Michael F.,	449 Union st.,	Merchant, 850 North st.
Shea, Michael J.,	25 Vinton st.,	Chauffeur, 438 Dwight st.
Shea, Patrick F.,	62 Calhoun st.,	Theatrical Business, New York City.
Shea, Stephen A.,	301 Wilbraham road,	Druggist, 802 State st.
Shea, Timothy,	79 Leete st.,	Oar Manufacturer, 53-55 Union st.
Shean, Charles T.,	3 John st.,	Proprietor, 211 Main st.
Shean, Robert E.,	18 Adams st.,	Hotel Business, 211 Main st.
Shedd, Horace E.,	70 Temple st.,	Bookkeeper, 47 Dwight st.
Sheehan, Edward J.,	41 Linden st.,	Jeweler, 332 Main st.
Sheehan, Joseph J.,	389 Walnut st.,	Salesman, 250 Worthington st.
Sheehan, Thomas E.,	41 Linden st.,	Salesman, 274 Main st.
Sheldon, Raymond W.,	51 Trafton road,	Grocer, 53 Sumner ave.
Shepard, Frederic J.,	88 Acushnet ave.,	Repairman, 390-398 Main st.
Shepardson, Merton A.,	64 Avon place,	Manufacturer, 67 Taylor st.
Shepherd, William H.,	36 Sargeant st.,	Passenger Agent, B. & M. R. R.
Sherburne, James S.,	28 Roseland st.,	Proofreader, 381 Main st.
Sherman, Arthur M.,	99 Andrew st.,	Foreman, N. E. Westinghouse Co., East Springfield.
Sherman, Grant D.,	26 Besse place,	Box Maker, 225 Liberty st.
Sherman, Theodore H.,	84 Temple st.,	Teller, 63 Elm st.
Shields, James B., Jr.,*	45 Revere st.,	Clerk, 37 Harrison ave.
Shores, Manning N.,	2 Salem st.,	Insurance Agent, 387 Main st.
Shuart, William H.,	59 Maple st.,	Superintendent, Bridge st., West Springfield.
Sickler, John P.,	37 Demond ave.,	Foreman, N. E. Westinghouse Co., Chicopee Falls.
Simonds, J. Guy,	34 Norfolk st.,	Tool Maker, 837 State st.
Skala, Frank W.,	71 Pecousic ave.,	Knitter, 33-51 Morris st.
Skillings, Walter J.,	Page Boulevard,	Fitter, Stockbridge st.
Skillings, William R.,	122 Walnut st.,	Clerk, 74 Park st.
Sleigh, William B.,	64 Westford ave.,	Manager, 31 Cypress st.
Smith, Alfred G.,	65 Mason place,	Barber, 529 Belmont ave.
Smith, Andrew J.,	38 Douglas st.,	Plumber, 75 Bridge st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Smith, Earle L.,	28 Amaron st.,	Proprietor, 776½ State st.
Smith, Edward W.,	266 Main st., I. O.,	Machinist, Stockbridge st.
Smith, Edwin H.,	80 West Alvord st.,	Civil Engineer, 137½ State st.
Smith, Fred E.,	62 Greenwich st.,	Foreman, 68 Birnie ave.
Smith, Herbert M.,	49 Osgood st.,	Broker, 256-268 Main st.
Smith, Horace,	14 Huntington st.,	Cigar Maker, 32 Hampden st.
Smith, James P.,	285 Union st.,	Clerk, 285 Union st.
Smith, John D.,	35 Dartmouth st.,	Druggist, 279 Main st.
Smith, William B.,	26 Monmouth st.,	Engineer, N. E. Westinghouse Co., East Springfield.
Smith, William H.,	475 Main st.,	Barber, 35 Taylor st.
Smyth, W. Hamilton,	36 Churchill st.,	Manufacturer, 235 Mill st.
Snow, Emmons E.,	754 Chestnut st.,	Printing Business, 7-51 Worthington st.
Spalding, Hartley A.,	75 Sherman st.,	Clerk, 837 State st.
Sparks, Carlton H.,	17 College st.,	Pattern Maker, 20 Cypress st.
Sparrow, Frederick E.,	69 Bradford st.,	Foreman, Metals Production Co., Plainfield st.
Spaulding, Edwin R.,	20 Dexter st.,	Printer, 279 Dwight st.
Spencer, Joseph R.,	92 Spring st.,	Salesman, Maxf Grinding Wheel Corp., Chester.
Spencer, Layton H.,	55 Cambridge st.,	Proprietor, 55 Cambridge st.
Spaine, John,	532 Union st.,	Inspector, N. E. Westinghouse Co., East Springfield.
Squires, Charles E.,	83 Central st.,	Storekeeper, 96 Summer st.
Stacker, Alfred,	304 Union st.,	Decorator, 392 Main st.
Stacy, Charles S.,	36 Willard ave.,	Plumbing and Heating, 36 Willard ave.
Stagnaro, Francesco,	38 Howard st.,	Storekeeper, 520 Main st.
Stagnaro, Nicola,	182 Quincy st.,	Fruit Dealer, 520 Main st.
Stalker, Seymour B.,	56 Hall st.,	Salesman, 56 Hall st.
Stannard, Wilbur A.,	43 Dexter st.,	Secretary, 122 Chestnut st.
Stanton, Mark S.,	64 Jefferson ave.,	Superintendent, Page Box Co., Chicopee.
Starr, Albert C.,	130 Mulberry st.,	Special Agent, 283 Worthington st
Stearns, Edwin F.,	31 Maple st.,	Insurance Broker, 317 Main st.
Stearns, James P.,	52 High st.,	Auditor, 500 Main st.
Stedman, Fred C.,	82 Marengo Park,	Insurance Agent, 293 Bridge st.
Steele, John,	24 Foster st.,	Salesman, 349 Main st.
Steere, G. Doubleday,	16 Patton st.,	Bookbinding Business, 29 Worthington st.
Steinbeck, Peter Lauritz,	481 Belmont ave.,	Salesman, Sylvester Iron Works, Danvers.
Steinkuhler, George H.,	40 High st.,	Merchant, 219 Main st.
Stent, George R.,	275 Maple st.,	Chauffeur, 270 Maple st.
Stephens, George R.,	3 Pearl st. place,	Proprietor, 315 Bridge st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Stevens, Russell C.,	S. S. Boston road,	Proprietor, S. S. Boston road.
Stevens, Walter E.,	709 Belmont ave.,	Inventory Clerk, foot Church st., West Springfield.
St. Germain, Albert,	19 Belmont place,	Barber, 152 Garfield st.
Stocker, Arthur B.,	43 Longfellow ter.,	City Editor, 292 Main st.
Stone, Charles F.,	96 Bond st.,	Janitor, 96 Bond st.
Stratton, Frederick L.,	290 Bridge st.,	Salesman, 346 Main st.
Strong, Henry,	107 Westford ave.,	Retired.
Sturtevant, Frank F.,	420 Main st.,	Salesman, 348 Main st.
Sturtevant, Fred H.,	219 Florida st.,	Paper Manufacturer, Holyoke.
Sturtevant, George A.,	31 Maple st.,	Clerk, 144 State st.
Sullivan, Cornelius,	61 Broad st.,	Watchman, 85 Broad st.
Sullivan, Daniel J.,	35 Donald st.,	Foreman, 118 Fisk ave.
Sullivan, Dennis,	203 Pendleton ave.,	Chauffeur, 71 Colton st.
Sullivan, Edward F.,	198 Tyler st.,	Insurance Agent, 29 Worthington st.
Sullivan, Frank D.,	75 Central st.,	Clerk, N. Y., N. H. & H. R. R. Yards.
Sullivan, Frank G.,	45 Pearl st.,	Plumber, 240 Main st.
Sullivan, James J.,	12 Pinney place,	Wine Clerk, 179 Main st., I. O.
Sullivan, Jeremiah,	65 Pendleton ave.,	Teamster, 96 Summer st.
Sullivan, Jeremiah J.,	20 Leonard st.,	Foreman, Street Dept., City.
Sullivan, John J.,	7 Greenwich st.,	Expressman, 62 Worthington st.
Sullivan, John J.,	235 Pendleton ave.,	Conductor, 5 North Main st.
Sullivan, John M.,	57 Everett st.,	Manager, 220 Franklin st.
Sullivan, Michael W.,	764 Carew st.,	Motorman, 5 North Main st.
Sullivan, Timothy,	*574 Armory st.,	Plasterer, Springfield Contractor Supply Co., Napier st.
Summers, George W.,	S. S. Bay st.,	General Insurance, 374 Main st.
Sunderman, William A.,	75 Northampton ave.,	Salesman, 357 Main st.
Swaine, John,	30 Daytona st.,	Blacksmith, 4 Cypress court.
Swan, Wilbur M.,	50 Bellevue ave.,	Stockholder, Broad and Hanover sts.
Sweetser, William I.,	164 Belmont ave.,	Ruler, 279 Dwight st.
Swift, Ernest A.,	29 West Alvord st.,	Treasurer, 47 Dwight st.
Taft, Edward H.,	748 State st.,	Ice Business, 748 State st.
Taft, Francis H.,	444 Belmont ave.,	Salesman, 686 Main st., Holyoke.
Tait, Harry J.,	29 Vinton st.,	Superintendent, 132-134 Cass st.
Tait, William G.,	666 Chestnut st.,	Coal Business, 133 Liberty st.
Talbot, Raymond A.,	123 Firglade ave.,	Equipment Agent, 495 Main st.
Tapley, William W.,	146 Mill st.,	Manager, 43 Cross st.
Taplin, Frank C.,	52 West Alvord st.,	Merchant, 53 Hillman st.
Tarbell, Henry C.,	59 Hall st.,	Bookkeeper, 65 Willow st.
Tate, William J.,	36 Massasoit st.,	Carpenter, 49 Boylston st.
Taylor, Albert C.,	708 Chestnut st.,	Office Manager, Springfield Provision Co.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Taylor, Edgar R.,	72 Hall st.,	Proprietor, 133-145 Bridge st.
Taylor, Fred G.,	66 Pynchon st.,	Barber, 25 East Court st.
Taylor, George,	39 Fisk ave.,	Clerk, 130 Birnie ave.
Taylor, Joseph F.,	100 Ashley st.,	Barber, 296 Bridge st.
Thacker, William R.,	21 Bellevue ave.,	Merchant, 67 Taylor st.
Thayer, Charles H.,	146 Myrtle st., I. O.,	Merchant, 193 Worcester st.
Thayer, Dwight R.,	35 Wilbraham ave.,	Clerk, 349-359 Main st.
Thomas, John J.,	56 Webster st.,	Lithographer, 67 Taylor st.
Thomas, William A.,	108 Orange st.,	Steamfitter, Fisk Rubber Co., Chicopee Falls.
Thornton, George R.,	108 Byers st.,	Janitor, 108 Byers st.
Thornton, Michael J.,	361 North Main st.,	Assistant Superintendent, Springfield Provision Co.
Thurston, Edward S.,	75 Avon place,	Electrician, 499 Main st.
Thurston, George E.,	48 Abbe ave.,	Tool Maker, 73 Taylor st.
Titus, Charles E.,	52 Adams st.,	Salesman, 25 Harrison ave.
Tongue, John E.,	15 Girard ave.,	Watchman, Municipal Bldg.
Toomey, James F.,	20 Cleveland st.,	Lithograph Printer, Heywood st.
Towne, Charles L.,	179 St. James ave.,	Real Estate, 179 St. James ave.
Towne, Minot W.,	47 Bancroft st.,	Carpenter, 373-377 Plainfield st.
Townsend, Henry C.,	53 Hall st.,	Clerk, 348 Main st.
Trafford, Edwin Howell,	89 Belmont ave.,	Broker, 264 Main st.
Trask, George E.,	50 Commonwealth ave.,	Bookkeeper, 383 Main st.
Trombly, James, Jr.,	228 Main st., I. O.,	Weaver, Indian Orchard Co., I. O.
True, Harry P.,	33 Beechwood ave.,	Jeweler, 408 Main st.
Tubbs, C. Fred,	75 Montrose st.,	Mechanic, Stockbridge st.
Tucker, Charles S.,	92 Firglade ave.,	Painter and Paper Hanger, 92 Firglade ave.
Tucker, J. Francis,	32 Massachusetts ave.,	Manager, 32 Liberty st.
Tufts, Ernest D.,	15 Greenwich st.,	Proprietor, 23 Main st.
Tuohey, Thomas F.,	45 Dexter st.,	Electrical Contractor, 345 Dwight st.
Tuttle, Ralph E.,	89 Wilmont st.,	Electrician, 73 State st.
Twining, William L.,	43 Margaret st.,	Chauffeur, 15i Bridge st.
Underhill, Arthur W.,	1091 Worthington st.,	Inspector, N. E. Westinghouse Co., Chicopee Falls.
Underwood, Arthur H.,	Pemaquid st.,	Printer, 53 Hillman st.
Unsworth, Leon,	594 Union st.,	Teamster, 220 Pendleton ave.
Unsworth, William H.,	26 Victoria st.,	Printer, 29 Worthington st.
Upton, George E.,	14 Reed st.,	Clerk, 232 Eastern ave.
Vacirca, Sebastiano,	100 Pendleton ave.,	Barber, 144 Broadway, Chicopee Falls.
Valiere, Thomas,	282 Worcester st.,	Moulder, Pine st., I. O.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Vance, George H.,	24 Foster st.,	Foreman, 210 Alden st.
Vanderbilt, Leroy B.,	15 Euclid ave.,	Manager, 221 Liberty st.
Van Heusen, Adam C.,	85 Trafton road,	Merchant, 188 Worthington st.
Van Horn, John B.,	163 Thompson st.,	Sales Manager, Holyoke Card & Paper Co., Brightwood.
Van Norman, George H.,	87 Ingersoll Grove,	Experimental Dept., 160 Wilbraham ave.
Veet, Fred A.,	787 Main st.,	Compositor, 381 Main st.
Vinick, Louis,	513 Hancock st.,	Grocer, 472 Central st.
Vining, Henry D.,	165 Buckingham st.,	Office Manager, 387 Main st.
Vogel, Erhard F.,	566 Main st.,	Storekeeper, 544 Main st.
Volley, Frederick,	44 Princeton st.,	Druggist, 360 Bay st.
Waldron, Henry S.,	100 Marengo Park,	Insurance, 383 Main st.
Walker, Clifford M.,	66 Horace st.,	Accountant, 73 State st.
Walker, Fred E.,	48 Catharine st.,	Rooming House Keeper, 48 Catharine st.
Walker, George A.,	63 Central st.,	Contractor, 79 Central st.
Wallace, Clarence,	47 Oak st., I. O.,	Laborer, Pine st., I. O.
Walsh, Frank T.,	280 Forest Park ave.,	Bookkeeper, 253 Bridge st.
Walsh, John J.,	171 Abbe ave.,	Machinist, Bosch Magneto Co., North Main st.
Walsh, William P.,	14 Wilcox st.,	Inspector, N. E. Westinghouse Co., East Springfield.
Walters, Arthur E.,	11 Converse st.,	Grocer, 754 Sumner ave.
Walters, George S.,	14 Howard place,	Grocer, 75 Willow st.
Ward, James H.,	9 Florence st.,	Telegrapher, 317 Main st.
Ward, William P.,	266 King st.,	Electrician, 266 King st.
Warner, Dwight H.,	279 Orange st.,	Carpenter, 128 Oakland st.
Warner, Earl L.,	Stony Hill road,	Farmer, Stony Hill road.
Warner, Frank A.,	1470 State st.,	Merchant, 1526 State st.
Warner, Fred E.,	203 Wilbraham ave.,	Salesman, Atlantic ave.
Warner, Harold E.,	63 Dexter st.,	Salesman, 345 Main st.
Warner, Hiram Leroy,	N. S. Stony Hill road,	Farmer, N. S. Stony Hill road.
Warner, Robert B.,	71 Harvard st.,	Engineer, 33 Lyman st.
Warner, William J.,	20 Kenwood ter.,	Clerk, Fisk ave.
Warren, Isaac J.,	140 Chestnut st.,	Broker, 387 Main st.
Watts, Russell N.,	51 Earl st.,	Clerk, Heywood st.
Webber, Harry E.,	29 Myrtle st.,	Clerk, 315 Bridge st.
Welch, Thomas J.,	78 Charles st.,	Proprietor, 420 Dwight st.
Wenk, Karl Joseph,	106 Pendleton ave.,	Baker, 434 Worthington st.
Werner, Henry A.,	171 Chestnut st.,	Baseball Stitcher, 33 Birnie ave.
Whalen, Andrew J.,	344 (B) Chestnut st.,	Delivery Clerk, B. & M. R. R.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Whaling, Charles A.,	25 Bliss st.,	Plasterer, Unemployed.
Wheeler, Frank E.,	29 Washington road,	Stock Broker, 318 Main st.
Whipple, Julius H.,	48 Pearl st.,	Broker, 31 Elm st.
Whitbeck, Edward V.,	102 State st.,	Janitor, Howard St. School.
White, Ernest W.,	23 Leete st.,	Motorman, 5 North Main st.
White, George E.,	93 Santa Barbara st.,	Foreman, N. E. Westinghouse Co., East Springfield.
White, Medosh,	128 Union st.,	Barber, 15 Besse place.
White, Merrill T.,	194 Central st.,	Auto Business, 438 Dickinson st.
White, Peter William,	243 Summer st.,	Sheet Metal Worker, 256 Federal st.
Whitelock, Samuel F.,	82 Pearl st.,	Cigar Maker, 459 Worthington st.
Whiting, Frank,	83 Central st.,	Painter, 5 North Main st.
Whitlock, Frank L.,	74 Jefferson ave.,	Teller, 294 Main st.
Whitney, Samuel R.,	32 Spencer st.,	Draftsman, 33 Lyman st.
Whittaker, Otto,	627 Belmont ave.,	Foreman, 43 Hampden st.
Wilber, Harrison F.,	32 Besse place,	Machinist, Stockbridge st.
Willette, Amedee J.,	72 Pearl st.,	Proprietor, 95 Bridge st.
Williams, Charles T.,	62 Bancroft st.,	Meat Cutter, 30 Main st.
Williams, Francis H.,	131 Florida st.,	Treasurer, 195 State st.
Williams, Fred W.,	41 Pasco st.,	Electrician, 150 Main st., I. O.
Williamson, Ernest G.,	20 Massachusetts ave.,	Chauffeur, 20 Massachusetts ave.
Wilson, Fred E.,	160 Cedar st.,	Foreman, 531 Worthington st.
Wilson, Henry J.,	86 Adams st.,	Baker, 353-357 Chestnut st.
Wilson, Robert L.,	758 Carew st.,	Chauffeur, 16-18 Lyman st.
Winans, Harry J.,	357 St. James ave.,	Manager, 500 Main st.
Winans, Wilbur N.,	17 Sumner ave.,	Manager, 51-53 Lyman st.
Winchell, Albert M.,	25 Massachusetts ave.,	Salesman, John Payne, Worcester
Winkel, Louis G.,	38 Arch st.,	Linotype Operator, 381 Main st.
Winn, Michael J.,	478 Union st.,	Upholsterer, 472 Union st.
Winslow, Frank W.,	35 Howard st.,	Undertaker, 37 Howard st.
Winter, Edson P.,	57 High st.,	Manager, 21 Cypress st.
Winters, Lawrence,	288 Armory st.,	Salesman, 435 Dwight st.
Wolcott, Herbert R.,	26 Irvington st.,	Manager, 62 Hampden st.
Wolcott, Joseph N.,	15 Keith st.,	Bricklayer, 157 Lebanon st.
Wood, Charles A.,	20 Montmorenci st.,	Bookkeeper, 539 Main st.
Wood, Clifford L.,	33 Margaret st.,	Chauffeur, 210 Alden st.
Wood, Dwight B.,	14 Amaron st.,	Examiner, 195 State st.
Wood, Edmund W.,	38 Dorchester st.,	Clerk, 500 Main st.
Wood, George H.,	24 Besse place,	Paper Cutter, 29 Sheffield st.
Wood, Harris E.,	79 Rochelle st.,	Clerk, 195 State st.
Wood, Richard S.,	54 Palmer ave.,	Jeweler, 408 Main st.
Wood, Robert F.,	90 Buckingham st.,	Wholesale Manager, 411-413 Main st.
Wood, William,	22 Church st.,	Inspector, 4 Birnie ave.

List of Jurors.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Woodbury, Milo K.,	672 Chestnut st.,	Merchant, 138 Main st.
Woods, Alfred E.,	26 Besse place,	Foreman, Fisk Rubber Co., Chicopee Falls.
Woodstock, Roy M.,	77 Hall st.,	News Dealer, 192 State st.
Woodward, Louis B.,	321 Belmont ave.,	Clerk, 411 Main st.
Worden, Arthur N.,	135 Union st.,	Assembler, Appleton st., Holyoke.
Workheiser, Frank B.,	87 Fort Pleasant ave.,	Office Manager, 385 Liberty st.
Worthington, Albert E.,	708 Chestnut st.,	Clerk, American Writing Paper Co., Holyoke.
Worthington, Chester R.,	4 Eagle st.,	Foreman, Sp. Provision Co.
Wright, Charles A. L.,	28 McKnight st.,	Civil Engineer, Municipal Bldg.
Wright, Frederick E.,	115 Wilbraham rd.,	Traveling Salesman, 162½ Chestnut st.
Wright, Harry A.,	95 Ingersoll Grove,	Farmer, Williamsburg.
Wright, Herbert W.,	111 Florida st.,	Contractor, 111 Florida st.
Wright, James F.,	31 Biltmore st.,	Printer, 381 Main st.
Yarlott, Albert E.,	6 Springfield st.,	Manager, R. R. Restaurant, Union Station.
Yerrall, George R., Jr.,	45 East Alvord st.,	Real Estate Dealer, 374 Main st.
Young, Clyde W.,	278 Pine st.,	President, 121 State st.
Young, George E.,	38 Acorn st.,	Tool Maker, Stockbridge st.
Young, Homer G.,	16 Clifford st.,	Manager, 261 Main st.
Young, William Albert,	99 Euclid ave.,	Assembler, Stockbridge st.
Young, William L.,	12 Daytona st.,	Agent Board of Health, Municipal Bldg.
Youngberg, August Wilhelm,	115 Pine st.,	Molder, Metals Production Co., Brightwood.
Zimmer, Christian W.,	453 Union st.,	Gilder, 21 Harrison ave.

CITY OF SPRINGFIELD, June 14, 1918.

The foregoing is a list of jurors prepared for the City of Springfield under the provisions of law applicable thereto.

JOHN W. NOLAN,
WARREN P. UNDERWOOD,
STEPHEN F. BIBLE,
ELIJAH A. NEWELL,
Registrars of Voters.

CITY AUDITOR.

THE CITY OF
SPRINGFIELD, MASSACHUSETTS.
AUDITING DEPARTMENT.

December 30, 1918.

To His Honor the Mayor, and the City Council :—

During the fiscal year ended on November 30, 1918, this department has audited all bills and pay rolls presented for payment. It has also, as required by ordinance, made the quarterly examinations of the accounts of the City Treasurer and of the Water Department, and the semi-annual examinations of the accounts of the City Clerk and of the City Collector, all of which have been found correct.

The accounts of the Treasurer for the Commissioners of the Sinking Funds have been examined by this department and found correct.

The regular financial statements, schedules, etc., are being prepared and will be presented later.

Respectfully submitted,

WM. G. McINTYRE, *City Auditor.*

CONSOLIDATED BALANCE SHEET.
(After Closing.)

CITY OF SPRINGFIELD, MASS.
November 30, 1918.

		FUNDS				
	Totals	General	Water	Capital	Sinking	Special and Trust
ASSETS:						
Cash in Banks and Office of City Treasurer,	\$741,925.34	\$205,994.37	\$93,937.80	\$423,349.84	\$7,388.85	\$11,254.48
Revenues and Accounts Receivable (Schedule A),	1,250,537.29	1,184,630.15	65,907.14			
Property (Schedule B),	19,968,556.14	58,981.54	5,631,039.40	14,287,516.74		
Stores (Schedule K),	190,993.49		132,011.95			
Investments,	1,107,250.00				1,062,250.00	45,000.00
Total Assets,	\$23,259,262.26	\$1,449,606.06	\$5,972,896.29	\$14,710,866.58	\$1,069,638.85	\$56,254.48
LIABILITIES:						
Warrants Payable,	\$287,628.69	\$130,383.63	\$28,272.49	\$128,972.57		
Notes Payable,	500,000.00	500,000.00				
Bonded Indebtedness (Schedule C):						
City Bonds—Outside Limit,	2,707,000.00			2,707,000.00		
City Bonds—Within Limit,	4,280,500.00			4,280,500.00		
Public Utility Bonds,	2,029,000.00		2,029,000.00			
Total Bonds Outstanding,	\$9,026,500.00			\$6,997,500.00		
Less Sinking Fund Reserves,	1,069,638.85		176,679.99	883,058.86		
Net Bonded Indebtedness,	\$7,956,861.15		\$1,852,320.01	\$6,104,441.14		

CONSOLIDATED BALANCE SHEET.—Continued.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
Reserves:						
For Redemption of Bonds,.....	\$1,069,638.85		\$176,579.99	\$893,058.86		
For Abatement of Taxes,.....	106,334.91	\$106,334.91				
For Abatement of Accounts Receivable,...	3,935.97	5,605.53	329.54			
For Depreciation of Property,.....	63,098.52		63,098.52			
For Leeward Reservoir Lot Fund,.....	691.00		691.00			
For Extraordinary and Unforeseen Ex-						
penses,.....	2,210.36	2,210.36				
For Deferred Work,.....	80,000.00		80,000.00			
Total Reserves,.....	\$1,327,903.71	\$114,150.80	\$320,699.05	\$893,058.86		
Sinking Funds,.....	\$1,069,638.85				\$1,069,638.85	
Special Funds:						
Sherman D. Porter Fund,.....	\$11,537.60					\$11,537.60
Court Square Extension Fund,.....	32,826.84					32,826.84
Gurdon Bill Fund,.....	4,764.14					4,764.14
Smith-Hughes Fund,.....	708.84					708.84
Helen M. Hooley Fund,.....	4,820.18					4,820.18
Charles S. Marsh Fund,.....	322.62					322.62
McKinley Monument Fund,.....	638.94					638.94
Wm. H. Smith Fund,.....	635.32					635.32
Total Special Funds,.....	\$56,254.48					\$56,254.48
Total Liabilities,.....	\$11,198,291.88	\$744,534.43	\$2,201,891.55	\$7,126,472.57	\$1,069,638.85	\$56,254.48
Excess of Assets:						
Surplus,.....	12,060,970.88	705,071.63	8,771,504.74	7,584,894.01		
	\$23,259,262.26	\$1,449,606.06	\$5,972,896.29	\$14,710,866.58	\$1,069,638.85	\$56,254.48

CONSOLIDATED FUND STATEMENT.
(After Closing.)
CITY OF SPRINGFIELD, MASS.
November 30, 1918.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
Resources:						
Unapplied Cash,.....	\$454,296.65	\$75,610.74	\$65,665.31	\$294,377.27	\$7,388.85	\$11,254.48
Available Resources,.....	1,265,537.23	1,184,630.13	66,907.14			
Estimated Revenues, 1919 (Schedule D),.....	42,000.00	42,000.00				
Investments,.....	1,107,266.00				1,062,250.00	45,000.00
Total Fund Resources,.....	\$2,854,083.94	\$1,302,240.89	\$131,572.45	\$294,377.27	\$1,069,638.85	\$56,254.48
APPROPRIATIONS AND RESERVES:						
Unencumbered Balances of Appropriations (Schedule E),.....	\$326,292.11	\$79,726.61		\$246,565.50		
Unappropriated Revenues,.....		6,348.66				
Premium on Bonds,.....	6,348.66					
RESERVES:						
For Encumbrances of Appropriations (Schedule E),.....	\$76,523.85	\$34,711.12		\$41,812.73		
For Abatement of Taxes,.....	106,334.91					
For Abatement of Revenues Accrued,.....	5,385.07	5,605.53	\$329.54	5,999.04		
For Re-Appropriation,.....	5,999.04					
For Redemption of Public Debt,.....	1,069,638.85				\$1,069,638.85	
For Lombard Reservoir Lot Fund,.....	691.00		691.00			
For Extraordinary and Unforeseen Expenses,.....	2,210.36	2,210.36				
For Notes Payable,.....	500,000.00	500,000.00				
Total Reserves,.....	\$1,767,333.08	\$648,861.92	\$1,020.54	\$47,811.77	\$1,069,638.85	
Total Appropriations and Reserves,.....	\$2,099,973.85	\$734,937.19	\$1,020.54	\$294,377.27	\$1,069,638.85	
Excess:						
Surplus (Schedule F),.....	754,110.09	567,308.70	130,551.91			\$56,254.48
Total	\$2,854,083.94	\$1,302,240.89	\$131,572.45	\$294,377.27	\$1,069,638.85	\$56,254.48

REVENUES AND ACCOUNTS RECEIVABLE.
(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.							
Account	DEBIT		CREDIT			DEBIT	
	Uncollected Nov. 30, 1917	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1918
GENERAL FUND.							
Miscellaneous Revenues:							
Care at Almshouse—Charities							
Department, ...	\$1,606.94	\$7,086.30	\$8,693.24	\$7,001.30	\$106.85	\$7,108.15	\$1,585.09
Care at Hospitals—Health De-							
partment, ...	20,281.08	16,436.22	36,717.30	14,709.16	12,751.32	27,460.48	9,256.82
Charges for Services—Engineer-							
ing, ...		1.25	1.25	1.25		1.25	
Charges for Services—Street							
Sprinkling, Street Railway,	2,530.40	2,530.40	5,060.80	2,530.40		2,530.40	2,530.40
Fees:							
City Collector, ...		3,302.49	3,302.49	3,302.49		3,302.49	
Lockup, ...		198.20	198.20	198.20		198.20	
Public Bathhouses, ...		1,042.25	1,042.25	1,042.25	4.00	1,042.25	5.00
Public Sanitary, ...		917.65	917.65	917.65		917.65	
Interest:							
Bank Deposits—City Collec-		1,220.60	1,220.60	1,220.60		1,220.60	
tor, ...		581.96	581.96	581.96		581.96	
Special Assessments, ...		25,973.24	25,973.24	25,973.24		25,973.24	
Taxes, ...							
Licenses:							
Auctioneers, ...		48.00	48.00	48.00		48.00	
Bowling Alleys, ...		16.00	16.00	16.00		16.00	
Dances, ...		408.00	408.00	400.00	3.00	408.00	
Elevators, ...	37.50	297.50	297.50	297.50		297.50	
Exhibition, ...		476.00	476.00	476.00		476.00	
Express, ...		438.25	438.25	418.25	20.00	438.25	
Farmers'		27.50	27.50	26.50	1.00	27.50	
Fruit and Vegetable Peddlers,		1,800.00	1,800.00	1,776.00	24.00	1,800.00	
Intelligence Office, ...		26.00	26.00	26.00		26.00	
Junk and Second Hand							
Dealers, ...		146.45	146.45	142.45	4.00	146.45	
Manicure, Massage, etc., ...		13.00	13.00	13.00		13.00	
Motor Vehicle, ...		890.00	890.00	865.00	36.00	890.00	
Motor Vehicle Operator, ...		187.00	187.00	181.00	6.00	187.00	
Pawnbrokers, ...		200.00	200.00	200.00		200.00	
Pool and Billiard, ...		1,558.00	1,558.00	1,068.00	33.00	1,117.00	18.00
Ragpickers, ...		558.00	558.00	553.85	24.15	583.00	

REVENUES AND ACCOUNTS RECEIVABLE.—Continued.
(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.						
Account	DEBIT		CREDIT		DEBIT	
	Uncollected Nov. 30, 1917	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total
GENERAL FUND.						
Removal of Dead Animals.....	.....	\$1.00	\$1.00	\$1.00	.....	\$1.00
Street Musicians.....	.....	2.50	2.50	2.25	\$0.25	2.50
Sunday Theaters.....	.....	6,969.00	6,969.00	6,969.00	.....	6,969.00
Taxicab.....	.....	169.00	169.00	166.00	3.00	169.00
Theater.....	.....	1,200.00	1,200.00	1,200.00	.....	1,200.00
To Kill Animals.....	.....	1.00	1.00	1.00	.....	1.00
Moving Picture Receipts—School Department.....	\$90.60	419.45	510.05	510.05	.....	510.05
Permits:						
Sewer Entrances.....	160.00	6,756.41	6,916.41	6,756.41	160.00	6,916.41
Signs.....	.....	57.00	57.00	57.00	.....	57.00
Street Obstruction.....	39.50	3,461.54	3,501.04	3,476.04	.....	25.00
Street Openings.....	27.60	402.79	430.39	418.39	.60	11.50
Rents:						
Administration Building.....	516.30	3,097.80	3,614.10	3,097.80	.....	516.30
Auditorium.....	290.00	9,884.00	10,174.00	6,405.70	2,596.00	9,001.70
Dwight Street Widening.....	4,161.30	200.00	4,361.30	3,687.11	.....	1,122.80
Equipment Park Department.....	.....	150.00	150.00	150.00	.....	.....
Equipment—Streets and Eng- ineering.....	106.34	4,788.80	4,895.14	4,640.19	171.25	88.20
Miscellaneous.....	438.00	2,379.24	2,817.24	1,994.00	10.00	1,994.00
Organ.....	10.00	125.00	135.00	115.00	6.00	120.00
School Halls.....	11.00	224.50	235.50	220.50	.....	15.00
Schoolhouse Property.....	220.93	2,552.00	2,772.93	2,679.38	10.00	2,689.38
Tuition:						
Central High School.....	644.00	3,459.00	4,103.00	3,875.00	228.00	4,103.00
Evening High School.....	.....	1,952.92	1,952.92	1,945.62	16.00	1,966.62
Evening School of Trades.....	.....	1,099.00	1,099.00	1,099.00	.....	.....
Evening School—Vocational.....	.....	279.00	279.00	279.00	.....	.....
Graded School—Day.....	1,398.00	4,882.50	6,280.50	5,870.00	261.50	6,131.50
High School of Commerce.....	984.75	3,450.60	4,435.35	4,210.35	225.00	4,435.35
Industrial School.....	.....	28.50	28.50	28.50	.....	.....
Technical High School.....	1,926.25	5,788.00	7,714.25	6,639.50	374.75	7,014.25
Vocational School.....	383.50	1,514.50	2,198.00	1,673.00	525.00	2,198.00
Miscellaneous Sales:						
Army Training School.....	.....	1,063.00	1,063.00	1,050.00	.....	13.00
Building Department.....	.....	3.00	3.00	3.00	.....	.....
Charities Department—Alms- house Products.....	.....	1,695.51	1,695.51	1,197.33	.....	498.18
Charities Department—Wood.....	14.50	2,680.55	2,695.05	2,395.65	11.00	2,406.65
						288.40

REVENUES AND ACCOUNTS RECEIVABLE.—Continued.
(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT		Total	CREDIT		Total	DEBIT
	Uncollected Nov. 30, 1917	Committed during the year		Payments to City Treasurer	Abatements, etc.			Uncollected Nov. 30, 1918
GENERAL FUND.							
Fire Department.....		\$345.40	\$345.40			\$345.40	
Garbage.....		8,985.33	9,446.68	8,989.11		8,989.11	\$507.57
Municipal Market.....	\$461.35	2,308.44	2,308.44	2,283.37		2,283.37	20.07
Police Department.....		1,416.66	1,416.66	1,416.66		1,416.66	
Police Department—Uniform Cloth.....		1,727.82	1,727.82	1,678.40	\$15.44	1,693.84	33.98
Public Buildings—Municipal Group.....	5.00	23.05	28.05	23.05		23.05	
Public Buildings—Schoolhouses.....		85.65	85.65	85.65		85.65	
Public Parks.....		112.80	112.80	112.80		112.80	
Public Safety, Committee on.....		3,897.23	3,897.23	3,580.23		3,580.23	367.00
School Department.....	.75	920.50	921.25	914.34	.75	915.69	5.56
School Department—Vocational School.....		137.06	137.06	137.06		137.06	
Streets and Engineering, Depart- ment of.....	\$19.67	7,690.69	8,210.36	5,944.67	563.35	6,508.02	1,702.34
Recovered Expenditures:							
Army Training School.....		25,602.66	25,602.66	25,597.37	5.29	25,602.66	
Charities, Department of.....	4,951.19	21,491.95	26,443.14	21,763.66	274.08	22,037.69	4,405.45
Fire Department.....	9.00	31.00	40.00	31.00		31.00	9.00
Health Department.....	23.00	101.40	124.40	86.60		86.60	37.90
Law Department.....		90.00	90.00	90.00		90.00	
Public Buildings—Schools.....	100.00	69.71	169.71	155.97		155.97	3.74
Public Safety, Committee on.....		1,769.32	1,769.32	1,769.32		1,769.32	
School Department.....		7.87	7.87	7.87		7.87	
Streets and Engineering:							
Bridges.....	114.21	3,901.82	4,016.03	3,967.53		3,967.53	48.45
Forestry.....	147.62	121.62	269.24	196.62	72.62	269.24	
Highways.....	4,816.94	13,642.89	18,459.83	16,373.01	422.66	17,296.67	1,164.16
Refuse Disposal.....	418.16	782.80	1,200.96	469.53		469.53	751.42
Repair Shop.....	44.85	282.04	326.89	287.00		287.00	69.89
Sewers.....	423.38	762.94	1,186.30	966.45		966.45	206.89
Sidewalks and Curbing.....	1,552.43	2,907.85	3,960.33	2,738.34	764.41	3,538.35	321.98
Street Cleaning.....		49.62	49.62	49.62		49.62	
Street Office.....	231.82	.....	231.82	231.82		231.82	
Stables and Yards.....		1.45	1.45	1.45		1.45	

REVENUES AND ACCOUNTS RECEIVABLE.—Continued.
(Schedule A).

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1917	Committed during the year	Total	Payments to City Treasurer	Abatement, etc.	Total	Uncollected Nov. 30, 1918
GENERAL FUND.							
Special Assessments:							
Betterments.....	\$10,043.76	\$9,908.07	\$19,948.82	\$8,471.44	\$2,982.12	\$11,403.56	\$8,545.26
Sidewalks and Curbing.....	8,711.25	25,367.63	34,078.88	22,872.97	252.98	23,125.95	10,952.98
Street Watering—1917.....	8,725.97	.60	8,726.57	8,374.01	3.74	8,377.75	848.82
Street Watering—1918.....		38,941.24	38,941.24	29,445.50	633.04	30,078.54	8,862.70
Taxes—1916.....	919.12		919.12	601.20	283.88	885.08	34.09
Taxes—1917.....	868,609.19	1,881.45	860,490.64	806,136.60	11,622.19	816,748.79	42,741.86
Taxes—1918.....		3,846,433.54	3,846,433.54	2,898,370.80	13,976.06	2,911,346.86	985,087.18
Taxes—Paid after Abatement.....		68.02	68.02	68.02		68.02	
	\$985,998.06	\$4,157,134.19	\$5,093,132.25	\$4,009,784.86	\$48,428.94	\$4,058,213.80	\$1,084,918.46
WATER FUND.							
Water Department:							
Water Rates.....	\$53,006.47	\$474,291.47	\$527,297.94	\$470,109.74	\$1,295.13	\$471,504.87	\$55,798.07
Miscellaneous Sales.....	14,621.91	41,080.08	55,551.99	44,763.57	669.05	45,432.62	10,114.07
	\$67,628.38	\$515,321.55	\$582,849.93	\$514,873.31	\$2,064.18	\$516,937.49	\$65,907.14
Total—City Collector.....	\$1,003,526.44	\$4,672,455.74	\$5,675,982.18	\$4,524,663.47	\$50,493.12	\$4,575,156.59	\$1,100,825.59

REVENUES AND ACCOUNTS RECEIVABLE.—Concluded.
(Schedule A.)

CITY TREASURER IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.						
Account	DEBIT		CREDIT			DEBIT
	Uncollected Nov. 30, 1917	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Uncollected Nov. 30, 1918
GENERAL FUND.						
Miscellaneous Revenues:						
Fees—Sealer of Weights and Measures,.....		\$43.52	\$43.52	.....	.....	\$43.52
Recovered Expenditures:						
Refunds—Department of Streets and Engineering,.....		121,658.67	121,658.67	.....	.....	121,658.67
Taxes:						
Corporation,.....		28,009.51	28,009.51	.....	.....	28,009.51
Total—City Treasurer,.....		\$149,711.70	\$149,711.70	.....	.....	\$149,711.70
Total—Revenues Receivable,						\$1,250,537.29

PROPERTY.

(Schedule B.)

ASSESSORS.

Equipment.

Office, ... \$327.08

BUILDING COMMISSIONER.

Equipment.

Office, ... \$718.18

Automobiles, ... 818.75

Miscellaneous, ... 20.00

1,546.93

CHARITIES.

Land.

Alms-house Farm, ... \$75,000.00

Building.

Almahouse, ... \$27,960.89

Wayfarers' Lodge, ... 25,848.57

53,809.46

Equipment.

Office, ... \$91.13

Automobile, ... 1,098.57

Furniture and Fixtures.

Almahouse, ... \$9,285.98

Wayfarers' Lodge, ... 409.05

9,645.03

Live Stock, ... 2,868.00

Farm, ... 589.75

14,287.48

143,096.94*

CITY AUDITOR.

Equipment.

Office, ... 1,408.84

CITY CLERK.

Equipment.

Office, ... 975.00

CITY COLLECTOR.

Equipment.

Office, ... 2,686.54

CITY TREASURER.

Equipment.

Office, ... 876.00

FIRE.

Land.

Armory Street Station, ... \$2,000.00

Chestnut Street Station, ... 22,500.00

Margaret Street Station, ... 2,600.00

Mill Street Station, ... 8,000.00

Mill River Lane Station, ... 500.00

Forward, ... \$35,600.00

\$151,416.83

*Inventory Incomplete.

City Auditor's Report.

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Forward ,.....	\$35,600.00	\$151,416.83
North Street Station,.....	14,000.00	
North Main Street Station,.....	30,800.00	
Oak Street, I. O., Station,.....	2,000.00	
Oakland Street Station,.....	3,500.00	
Pine Street Station,.....	4,000.00	
Plainfield Street Station,.....	2,000.00	
Walnut Street Station,.....	7,100.00	
Winchester Park Station,.....	7,000.00	
		\$106,000.00
Buildings ,.....		
Armory Street Station,.....	\$16,000.00	
Boston Road Station,.....	200.00	
Chestnut Street Station,.....	14,500.00	
Court Street Fire Headquarters,.....	101,620.00	
Margaret Street Station,.....	22,500.00	
Mill Street Station,.....	16,500.00	
Mill River Lane Station,.....	2,000.00	
North and Patton Street Station,.....	58,000.00	
North Main Street Station,.....	20,000.00	
Oak Street, I. O., Station,.....	41,270.26	
Oakland Street Station,.....	12,140.11	
Pine Street Station,.....	35,000.00	
Plainfield Street Station,.....	10,500.00	
Walnut Street Station,.....	32,500.00	
Winchester Park Station,.....	50,000.00	
		432,730.37
Equipment ,.....		
Operating ,.....		
Fire Alarm System,.....	\$122,028.00	
Fire Fighting,.....	263,785.50	
Office,.....	261.86	
Furniture and Furnishings,.....	289.90	
Miscellaneous,.....	1,879.48	
		387,744.74
		926,475.11
HEALTH DEPARTMENT ,.....		
Land ,.....		
State Street, north side,.....	\$11,000.00	
West Street, south side,.....	30,000.00	
		\$41,000.00
Buildings ,.....		
Hospital,.....	40,000.00	
Equipment ,.....		
Office,.....	\$168.99	
Furniture and Fixtures,.....	2,340.82	
Operating,.....	910.69	
		3,420.00
		84,420.00
LAW DEPARTMENT ,.....		
Equipment ,.....		
Office,.....	\$129.86	
Library,.....	2,106.00	
		2,235.86
Forward ,.....		\$1,164,547.80

Forward.....		\$1,164,547.80	
MAYOR'S DEPARTMENT.			
Equipment.			
Office.....	\$37.08		
Automobile.....	2,619.81		
			2,704.89
MILITIA RIFLE RANGE.			
Land.			
Robbins' Road Rifle Range.....	\$1,000.00		
Building.			
House.....	3,000.00		
Equipment.			
Miscellaneous.....	7.00		
			4,007.00
MISCELLANEOUS.			
Land.			
Police and Fire Headquarters and Municipal Heating Plant.....	\$189,400.00		
Land for Municipal Purposes.....	13,767.96		
			203,167.96
MUNICIPAL GROUP.			
Land.			
Municipal Group, Court and Pynchon Streets, ..	\$1,075,077.44		
Buildings.			
Municipal Group.			
Auditorium.....	\$390,500.00		
Tower.....	142,200.00		
Court.....	31,500.00		
Landscape Gardening.....	9,600.00		
Administration Building.....	549,190.63		
		1,122,990.63	
Equipment.			
Operating.			
Electrical Fixtures, Auditorium.....	\$27,000.00		
Furniture and Fixtures, Auditorium.....	43,215.00		
Heating, Lighting, Plumbing, etc., Auditorium.....	63,445.00		
Electrical Fixtures, Tower.....	5,500.00		
Miscellaneous, Tower.....	33,037.00		
Electrical Fixtures, Court.....	16,400.00		
Miscellaneous, Court.....	2,200.00		
Electrical Fixtures, Administration Buildings.....	20,300.00		
Miscellaneous, Administration Building.....	80,895.53		
Furniture and Fixtures, Administration Building.....	95,356.57		
		387,349.10	
			2,585,417.17
MUNICIPAL HEATING PLANT.			
Land, Power Station and Garage Building.....	\$46,670.00		
Building, Heating Plant.....	31,000.00		
Equipment, Miscellaneous.....	238.84		
			77,958.84
Forward.....			\$4,086,305.68

Forward,.....		\$4,086,805.66
POLICE DEPARTMENT.		
Land.		
Police Station, Indian Orchard,.....		\$300.00
Buildings.		
Police Headquarters,.....	\$115,600.00	
Police Station, Indian Orchard,.....	3,000.00	
		<u>118,600.00</u>
Equipment.		
Signal System,.....	\$15,000.00	
Automobiles,.....	11,145.40	
Furniture and Fixtures,.....	3,683.70	
Property Improvement,.....	692.32	
Miscellaneous,.....	7,505.00	
		<u>37,976.42</u>
		<u>156,576.42</u>
PUBLIC BUILDINGS.		
Equipment.		
Office,.....	\$181.50	
Automobile,.....	1,150.00	
Miscellaneous,.....	100.00	
		<u>1,431.50</u>
PUBLIC PARKS.		
Land.		
Alvord Circle,.....	\$1,000.00	
Armory Street Reservoir Park,.....	9,890.33	
Armory Street Triangle,.....	400.00	
Belmont Triangle,.....	600.00	
Belmont Avenue,.....	2,000.00	
Benton Lawn,.....	18,000.00	
Calhoun Square,.....	35,000.00	
Carew Triangle,.....	12,100.63	
Chapin Terrace,.....	3,000.00	
Clarendon Fountain,.....	864.22	
Concord Terrace,.....	1,000.00	
Cottage Hill Grove, I. O.,.....	12,000.00	
Court Square Extension,.....	1,400,400.00	
Crescent Terrace,.....	2,000.00	
Dartmouth Fountain,.....	1,127.71	
Dartmouth Terrace,.....	2,045.24	
Dorchester Rest,.....	1,054.68	
Emerson Wight Playground,.....	40,000.00	
Emily Bill Playground,.....	40,000.00	
Florentine Gardens,.....	2,000.00	
Forest Park,.....	1,435,500.00	
Garfield Triangle,.....	1,300.00	
Gerrish Park,.....	8,000.00	
Glendell Terrace,.....	1,500.00	
Grenada Terrace,.....	2,000.00	
Gunn Square,.....	5,000.00	
Gurdon Bill Estate,.....	30,516.22	
Kenwood Terrace,.....	2,000.00	
Forward,.....	\$3,069,799.63	<u>\$4,195,113.68</u>

Forward.....	\$3,069,799.03	\$4,195,113.58
Kibbe Fountain.....	1,200.00	
Lafayette Rest.....	1,000.00	
Liberty Street Triangle.....	3,000.00	
Magnolia Terrace.....	5,000.00	
Maple Street Triangle.....	500.00	
Maplewood Terrace.....	5,000.00	
Marengo Park.....	4,000.00	
Massachusetts Terrace.....	1,500.00	
McKnight Glen.....	5,000.00	
McKnight Triangle.....	3,000.00	
Merrick Terrace.....	100,000.00	
Mill Street Fountain.....	800.00	
Mill River Rest.....	1,000.00	
Morningside Park.....	800.00	
Oak Grove Park.....	1,000.00	
Sergeant's Rest.....	15,000.00	
Smith's Triangle.....	5,000.00	
Springfield Street Triangle.....	1,000.00	
Stearns Square.....	200,000.00	
Sumner Terrace.....	7,000.00	
Tapley Playground.....	7,000.00	
The Levee.....	16,300.00	
Trinity Terrace.....	2,500.00	
Thompson Triangle.....	7,000.00	
Van Horn Reservoir Park.....	31,177.45	
Watershops Triangle.....	1,000.00	
Westford Circle.....	2,000.00	
West Street Playground.....	15,000.00	
West Street Triangle.....	500.00	
Winchester Square.....	25,000.00	
		\$3,538,076.48

Buildings.

Emerson Wight Playground.....	\$950.00	
Emily Bill Playground.....	1,200.00	
Forest Park.		
Greenhouses.....	4,000.00	
Menagerie.....	20,000.00	
Middle Pavilion.....	4,500.00	
Pheasantry, etc.....	1,500.00	
Restaurant.....	4,000.00	
Sheds.....	3,500.00	
Shelters.....	1,000.00	
Shops.....	3,500.00	
Stables.....	12,500.00	
Sumner Avenue Pavilion.....	3,500.00	
Myrtle Street Playgrounds.....	350.00	
Van Horn.....	4,000.00	
West Street Playground.....	250.00	
Bath House, Loon Pond.....	300.00	
Bath House, Watershops Pond.....	500.00	
		65,550.00

Forward..... \$3,603,626.48 \$4,195,113.58

City Auditor's Report.

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Forward, ...		\$3,603,626.48 \$4,195,113.58	
Equipment.			
Automobiles,.....	\$6,852.00		
Steam Roller,.....	3,074.12		
Forestry Division,.....	1,859.64		
Horses,.....	850.00		
Miscellaneous,.....	615.90		
		12,751.56	
			3,616,378.04
PUBLIC SAFETY, COMMITTEE ON.			
Furniture and Fixtures.			
Office,.....	\$313.97		
Bread Shops,.....	1,425.09		
		\$1,739.06	
Equipment.			
Miscellaneous,.....		2,042.07	
			3,781.13
PUBLIC SANITARY.			
Building,.....			24,000.00
REGISTRARS OF VOTERS.			
Equipment.			
Office,.....	\$80.00		
Furniture and Fixtures,.....	2,272.00		
			2,352.00
SCHOOLS.			
Land.			
Acushnet Avenue,.....	\$16,000.00		
Alden Street,.....	3,800.00		
Armory Street,.....	8,500.00		
Barrows,.....	13,700.00		
Berkshire Avenue,.....	100.00		
Boston Road,.....	1,500.00		
Brightwood,.....	6,500.00		
Buckingham,.....	45,000.00		
Carew Street,.....	18,000.00		
Carlisle,.....	3,000.00		
Central High,.....	172,800.00		
Central Street,.....	20,000.00		
Charles Street,.....	4,000.00		
Chestnut Street,.....	41,000.00		
Dry Bridge,.....	1,000.00		
Eastern Avenue,.....	5,400.00		
East Union Street,.....	5,000.00		
Emery Street Shop and Storehouse,.....	7,000.00		
Five Mile Pond,.....	500.00		
Forest Park,.....	30,000.00		
Glenwood,.....	2,500.00		
High School of Commerce,.....	174,200.00		
Homer Street,.....	12,000.00		
Hooker (Old),.....	148,600.00		
Hooker (New),.....	29,500.00		
Howard Street,.....	38,600.00		
Forward, ...	\$813,200.00		\$7,841,624.75

Forward,.....	\$813,200.00	\$7,841,824.75
Indian Orchard Grammar,.....	6,500.00	
Indian Orchard Primary,.....	8,000.00	
Jefferson Avenue,.....	7,500.00	
Kensington Avenue,.....	10,500.00	
Liberty,.....	3,250.00	
Lincoln,.....	24,000.00	
School Street,.....	35,500.00	
Sixteen Acres,.....	500.00	
State Street,.....	69,000.00	
Strickland,.....	5,000.00	
Sumner Avenue,.....	49,000.00	
Tapley,.....	22,000.00	
Technical High.,.....	134,684.59	
Vernon Street Building,.....	42,900.00	
Vocational,.....	79,800.00	
Wachogue,.....	200.00	
White Street,.....	14,000.00	
William Street,.....	14,000.00	
Worthington,.....	12,000.00	
		\$1,246,584.59

Buildings.

Acushnet Avenue,.....	\$46,188.94
Alden Street,.....	14,556.76
Armory Street,.....	145,758.47
Barrows,.....	44,842.44
Boston Road,.....	12,830.02
Brightwood,.....	162,453.31
Buckingham,.....	166,100.22
Carew Street,.....	46,456.29
Carlisle,.....	200.00
Central High.,.....	350,855.51
Central Street,.....	77,222.05
274 Central Street,.....	1,112.59
Charles Street,.....	14,457.36
Chestnut Street,.....	270,619.33
Dry Bridge,.....	1,546.33
Eastern Avenue,.....	30,461.42
East Union Street,.....	24,538.81
Emery Street Shop and Storehouse,.....	47,513.90
Five Mile Pond,.....	2,000.00
Forest Park,.....	94,609.89
Glenwood,.....	16,548.45
High School of Commerce,.....	736,748.24
Homer Street,.....	37,450.47
Hooker (Old),.....	60,857.24
Hooker (New),.....	231,145.14
Howard Street,.....	197,394.51
Indian Orchard Grammar,.....	186,252.82
Indian Orchard Primary,.....	12,678.66
Jefferson Avenue,.....	41,253.05
Kensington Avenue,.....	93,504.72
Liberty,.....	73,836.83
Lincoln,.....	90,404.98

Forward,.....	\$3,337,393.75	\$1,246,584.59	\$7,841,824.75
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Forward..... \$3,337,393.75 \$1,346,534.59 \$7,341,624.75

Portable Schoolhouses:

Dry Bridge.....	1,550.00
Forest Park.....	4,225.00
Homer Street.....	3,546.96
Rushville.....	3,482.34
White Street.....	1,525.00
School Street.....	20,321.23
Sixteen Acres.....	2,587.17
State Street.....	73,188.78
Strickland.....	20,919.18
Sumner Avenue.....	60,100.14
Tapley.....	70,743.34
Technical High.....	236,744.35
Vernon Street.....	3,155.53
Vocational.....	43,833.33
Wachogue.....	800.00
White Street.....	49,915.48
William Street.....	53,377.31
Worthington Street.....	67,333.56
Washington.....	126,717.66
	4,241,511.11

Equipment.

Operating.

Furniture and Fixtures.....	\$180,954.18
Miscellaneous.....	23,156.71
	209,110.89

STREETS AND ENGINEERING.

5,797,156.59

Land.

Abbe Avenue Crossing.....	\$10,400.00
67 Arch Street.....	1,000.00
Birnie Avenue Extension.....	1,000.00
Boston Road, Gravel Bank.....	450.00
Carew Street.....	800.00
Carew Street, between Baltimore and Fleet- wood streets.....	600.00
Emery Street, Dunn Lot.....	6,500.00
Fulton Street.....	42,500.00
Dwight Street.....	74,520.00
Five Mile Pond, Gravel Bank.....	4,500.00
Island Pond, Gravel Bank.....	300.00
Locust Street.....	2,370.00
Logan Street Yard.....	10,800.00
Longhill Dump.....	8,000.00
Page Boulevard.....	400.00
Pecousic Avenue, east side.....	19,000.00
Pecousic Avenue, west side.....	11,000.00
Between Pecousic and South streets.....	2,000.00
Marble Street.....	3,000.00
Marshall Street.....	650.00
Ashes and Garbage Station, State Street.....	23,800.00
Summer Street Yard.....	153,400.00
Trap Rock Quarry, Westfield.....	1,000.00
Switzer Avenue.....	200.00
	\$333,190.00

Forward..... \$333,190.00 \$13,633,731.34

Forward..... \$383,190.00 \$12,688,781.34

Buildings.

Cement Shed and Platform.....	\$300.00
Dwight Street, Leary Building.....	800.00
Emery Street Shop.....	26,000.00
Incinerator, Logan Street.....	25,000.00
Incinerator, West Street.....	7,000.00
South End Yard, east side Pecousie avenue.....	4,600.00
South End Yard, west side Pecousie Avenue.....	22,000.00
State Street, Ashes and Garbage Station.....	21,200.00
State Street Storehouse.....	2,600.00
Summer Street Yard.....	29,200.00
Summer Street Yard, Trap Bins and Trestle.....	10,000.00
	148,700.00

Equipment.

Asphalt Plant.....	\$7,546.57
Automobiles.....	3,190.00
Blacksmith Shop.....	1,168.12
Carpenter Shop.....	945.37
Concrete Mixer.....	3,032.96
Engineering Division.....	3,421.70
Garage.....	952.05
Harness and Fittings.....	1,933.25
Highway and Road Machinery.....	4,638.17
Horses.....	10,900.00
Laboratory.....	858.19
Machine Shop.....	608.21
Merg Plant.....	6,808.00
Motorcycles.....	875.00
Motor Trucks.....	22,464.50
Office Furniture, etc.....	1,611.09
Patterns.....	278.00
Sewer Division.....	425.11
Sleighs and Sleds.....	1,744.52
Small Tools.....	8,435.08
Stables and Yards.....	1,837.40
Steam Rollers.....	16,567.52
Steam Shovel.....	1,356.77
Steam Truck.....	3,600.00
Street Cleaning Division.....	2,167.25
Street Lighting.....	1,015.00
Wagons and Carts.....	6,640.00
Water Carts.....	1,011.32
	115,071.15
	646,961.15

WEIGHTS AND MEASURES, SCALES OF.

Equipment.

Office.....	\$158.00
Automobiles.....	872.85
Miscellaneous.....	1,243.40
	1,774.25

Total..... \$14,287,516.74

Forward,.....		\$14,287,516.74
	WATER FUND.	
WATER DEPARTMENT.		
Ludlow Water System,.....	\$975,584.84	
Little River Water System,.....	1,988,697.57	
Original Water System, Van Horn and Other,.....	244,224.50	
Addition to Plant,.....	557,264.40	
Distribution System, Water Main, Real Estate, etc.,.....	1,893,799.47	
Expenditures, Account Possible Supplies,.....	21,468.62	
		5,681,089.40
		\$19,968,556.14

PROPERTY ADDITIONS.

Year Ended November 30, 1912.

GENERAL FUND.

DEPARTMENT.		DEPARTMENT.	
Charities:	Office Equipment,.....	Forward,.....	\$16,302.34
	Furniture and Fixtures,.....	Public Parks:	
	Automobiles,.....	Furniture and Fixtures,.....	\$4.50
	Miscellaneous Equipment,.....	Automobiles,.....	250.00
City Auditor:		Miscellaneous Equipment,.....	98.00
	Office Equipment,.....	Public Buildings:	
City Collector:		Office Equipment,.....	\$1,150.00
	Office Equipment,.....	Schoolhouses, Property Improvement,	2,314.40
City Treasurer:		Schoolhouses, Furniture,.....	5,671.35
	Office Equipment,.....	Schoolhouses, Miscellaneous Equip-	1,280.20
Fire:		ment,.....	77,086.83
	Fire Alarm Equipment,.....	Liberty School,.....	2,786.64
	Miscellaneous Equipment,.....	Chestnut Street School Addition,.....	6,000.00
	Property Improvement,.....	Technical High School Addition,.....	
Health:		Public Safety, Committee on:	
	Furniture and Fixtures,.....	Furniture and Fixtures,.....	\$1,739.06
	Miscellaneous Equipment,.....	Miscellaneous Equipment,.....	2,042.07
Law:		Schools:	
	Library Equipment,.....	Furniture and Fixtures,.....	\$2,678.66
	Office Equipment,.....	Miscellaneous Equipment,.....	9,778.32
Municipal Group Buildings:		Sealer of Weights and Measures:	
	Property Improvement,.....	Automobile Equipment,.....	10.75
	Furniture and Furnishings,.....	Streets and Engineering:	
	Miscellaneous Equipment,.....	Automobiles,.....	513.08
Municipal Heating Plant:		Engineering Division,.....	643.50
	Furniture and Fixtures,.....	Highway and Road Machinery,.....	1,574.11
	Miscellaneous Equipment,.....	Motor Trucks,.....	2,025.00
		Office Furniture,.....	110.95
Police:		Stables and Yards,.....	218.10
	Furniture and Fixtures,.....	Steam Truck,.....	30.00
	Automobiles,.....	Street Cleaning Division,.....	685.98
		Sleighs and Sleds,.....	271.04
		Steam Rollers,.....	800.00
		Street Lighting Division,.....	117.68
		Wagons and Carts,.....	167.48
		Merg Plant,.....	87.64
Forward,.....		Total Additions during Year,.....	7,242.56
			\$136,416.18

BONDED DEBT—SUMMARY.
(Schedule C.)

	November 30,		
	1918.	1917.	November 30, 1918.
			Increase. Decrease.
"City" Debt within statutory limit:			
Sinking Fund Bonds,.....	\$1,235,000.00	\$1,235,000.00	
Deduct Investments,.....	895,068.86	881,219.21	\$71,889.65
Serial Bonds,.....	\$341,941.14	\$413,780.79	\$71,889.65
	3,055,500.00	3,303,500.00	247,700.00
"City" Debt outside statutory limit:			
Serial Bonds,.....	\$3,397,441.14	\$3,716,980.79	319,539.65
Net "City" Debt,.....	2,707,000.00	1,976,000.00	731,000.00
	\$6,104,441.14	\$5,692,980.79	411,460.35
"Water" Debt:			
Sinking Fund Bonds,.....	\$275,000.00	\$275,000.00	
Deduct Investments,.....	176,579.99	163,786.99	22,843.00
Serial Bonds,.....	\$98,420.01	\$121,263.01	\$2,843.00
	1,764,000.00	1,843,000.00	89,000.00
Net "Water" Debt,.....	\$1,852,420.01	\$1,964,263.01	111,843.00
Total Net Debt,.....	\$7,956,861.15	\$7,657,243.80	299,617.35

BONDED DEBT SERIALS.

WITHIN STATUTORY LIMIT	Issued	Coupon or Reg.	Rate	Original Issue	Paid	Outstanding	Payable
Sewer,.....	1901	Reg.	3½	\$25,000	\$17,000	\$8,000	September
Sewer,.....	1904	Reg.	3½	40,000	28,000	12,000	August
City Hall,.....	1907	Reg.	4	170,000	94,000	76,000	July
School, Kensington Avenue,.....	1908	Reg.	4	110,000	55,000	55,000	October
Sewer,.....	1908	Reg.	4	50,000	25,000	25,000	October
North Street Extension,.....	1909	Reg.	4	200,000	180,000	20,000	October
School, Lincoln,.....	1909	Reg.	4	100,000	45,000	55,000	October
Fire and Police Buildings,.....	1910	Reg.	4	340,000	136,000	204,000	October
Locust Street Extension,.....	1911	Reg.	4	20,000	14,000	6,000	October
Public Buildings,.....	1911	Reg.	4	320,000	112,000	208,000	October
Municipal,.....	1913	Reg.	4½	55,500	30,500	25,000	November
High School of Commerce,.....	1913	Coup.	4	500,000	125,000	375,000	November
School, Buckingham,.....	1913	Reg.	4½	220,000	55,000	165,000	November
School,.....	1913	Reg.	4½	89,500	10,000	29,500	November
Sewer,.....	1913	Reg.	4	50,000	10,000	40,000	November
High School of Commerce,.....	1914	Coup.	4½	150,000	32,000	118,000	November
Fulton Street Widening,.....	1914	Coup.	4½	400,000	80,000	320,000	November
School and Fire,.....	1914	Reg.	4½	250,000	52,000	198,000	November
High School of Commerce,.....	1915	Coup.	4	350,000	54,000	296,000	November
Dwight-Willow and Hillman Streets Extension,.....	1915	Reg.	4	70,000	21,000	49,000	November
School,.....	1916	Reg.	4	540,000	54,000	486,000	November
Land and Buildings,.....	1917	C. R.	4½	300,000	15,000	285,000	November
OUTSIDE STATUTORY LIMIT.							
Municipal Buildings,.....	1909	C. R.	3½	\$4,300,000	\$1,244,500	\$3,055,500	
Municipal Buildings,.....	1910	C. R.	4	\$600,000	\$135,000	\$465,000	November
Municipal Buildings,.....	1912	C. R.	4	400,000	80,000	320,000	November
Dwight and Water Streets Railroad Underpasses,.....	1913	C. R.	4	525,000	58,000	442,000	November
Municipal Building,.....	1914	C. R.	4	400,000	70,000	380,000	November
Dwight and Water Streets Railroad Underpasses,.....	1914	C. R.	4	200,000	20,000	180,000	November
Dwight Street Widening and Extension,.....	1917	C. R.	4½	800,000	80,000	720,000	December
WATER DEBT.							
Little River,.....	1907	C. R.	4	\$270,000	\$80,000	\$180,000	January
Little River,.....	1908	C. R.	4	270,000	80,000	190,000	January
Little River,.....	1909	C. R.	3½	1,080,000	280,000	800,000	January
Little River,.....	1910	C. R.	3½	975,000	24,000	954,000	January
Little River,.....	1913	C. R.	4½	250,000	50,000	200,000	November
Little River,.....	1916	C. R.	3½	100,000	10,000	90,000	November
Total without Sinking Funds,.....				\$2,348,000	\$584,000	\$1,764,000	
				\$9,775,000	\$2,256,500	\$7,518,500	

BONDED DEBT WITH SINKING FUNDS.

	Dated	Years	Rate	Coupon or Reg.	Due	Amount	Sinking Funds
School, ...	Dec., 1899	20	3½	Reg.	Dec., 1919	\$20,000.00	
School, ...	June, 1900	20	3	C. R.	June, 1920	125,000.00	
School, ...	Sept., 1901	20	3½	Reg.	Sept., 1921	125,000.00	
School, ...	Oct., 1902	20	3½	C. R.	Oct., 1922	45,000.00	
School, ...	Sept., 1903	20	3½	Reg.	Sept., 1923	40,000.00	
School, ...	Jan., 1906	20	3½	C. R.	Jan., 1926	395,000.00	
School, ...	Nov., 1906	20	4	C. R.	Nov., 1926	207,000.00	
						\$968,000.00	\$709,021.95
Sewer, ...	June, 1900	30	3	C. R.	June, 1930	142,000.00	80,733.97
Public Parks, ...	June, 1903	20	3½	Reg.	June, 1923	125,000.00	103,302.94
						\$1,235,000.00	\$893,058.86
Water, ...	Oct., 1890	30	3½	Coup.	Oct., 1920	\$125,000.00	
Water, ...	Oct., 1893	30	4	Coup.	Oct., 1923	150,000.00	
						\$275,000.00	\$176,579.99
Total with Sinking Funds, ...						\$1,510,000.00	\$1,069,638.85

SINKING FUNDS, NOVEMBER, 1918-1917.

Loan	Cash		Bonds, United States and Massachusetts		Bonds, City of Springfield		Bonds, Municipal	
	1918	1917	1918	1917	1918	1917	1918	1917
Schools, ...	\$3,771.95	\$85.97	\$108,000.00	\$44,000.00	\$368,500.00	\$368,500.00	\$143,250.00	\$153,250.00
Sewer, ...	483.97	155.43	8,000.00	3,000.00	32,000.00	32,000.00	16,000.00	16,000.00
Public Parks, ...	602.94	724.81	13,000.00	5,000.00	42,000.00	42,000.00	21,000.00	21,000.00
Water, ...	\$4,858.86	\$983.21	\$127,000.00	\$52,000.00	\$440,500.00	\$442,500.00	\$185,250.00	\$190,250.00
	2,579.99	786.99	13,000.00	8,000.00	76,000.00	76,000.00	38,000.00	44,000.00
	\$7,388.85	\$1,766.20	\$140,000.00	\$60,000.00	\$516,500.00	\$517,500.00	\$244,250.00	\$234,250.00
Loan	Bonds, Railroad		Bonds, Street Railway		Totals		Increase	
	1918	1917	1918	1917	1918	1917	1918	1917
Schools, ...	\$82,000.00	\$82,000.00	\$2,500.00	\$2,500.00	\$709,021.95	\$650,835.97	\$68,685.98	\$68,685.98
Sewer, ...	19,000.00	19,000.00	5,800.00	5,800.00	80,733.97	76,488.43	5,275.54	5,275.54
Public Parks, ...	19,000.00	19,000.00	7,700.00	7,700.00	103,302.94	96,424.51	7,878.13	7,878.13
Water, ...	\$120,000.00	\$120,000.00	\$15,500.00	\$15,500.00	\$393,058.86	\$321,219.21	\$71,839.65	\$71,839.65
	26,000.00	26,000.00	176,579.99	156,736.99	156,736.99	156,736.99	22,843.00	22,843.00
	\$146,000.00	\$146,000.00	\$15,500.00	\$15,500.00	\$1,069,633.85	\$974,956.20	\$94,682.65	\$94,682.65

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1913.

GENERAL FUND.
(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unnumbered Balance
Administration of Trust Funds.	\$425.00	\$425.00	\$425.00		\$9.81
Assessors.....	24,551.16	25,001.16	24,991.24		845.92
Building Commissioner.....	21,000.00	21,350.00	20,504.08		
Celebrations.....	1,100.00	3,500.00	3,500.00		
Charities:					
Administration.....	11,522.00	12,501.44	12,272.51		127.93
Alms House.....	46,182.00	51,738.12	50,316.32	\$1,100.00	411.80
Wayfarers' Lodge.....	8,638.00	47,158.00	5,938.15		206.86
Outrage Relief.....	46,657.00	47,170.52	45,170.48		
City Auditor.....	11,516.00	12,075.00	12,000.92		74.76
City Clerk.....	11,576.87	11,636.87	11,593.17		808.52
City Collector.....	21,404.83	21,631.83	21,615.38		15.45
City Council.....	2,455.00	8,632.00	3,459.24		142.62
City Planning Commission.....	1,100.00	1,100.00	14.09		35.91
City Treasurer.....	12,083.87	12,424.44	12,407.64		16.80
Damages—Land.....	59,687.00	59,687.00	59,137.00		550.00
Damages—Persons and Property.....	9,000.00	9,000.00	2,857.76		6,142.24
Fire Department:					
Administration.....	11,556.00	11,591.00	11,639.25		251.75
Operation.....	239,119.07	310,949.07	297,303.29	13,043.82	596.96
Fire Alarm System.....	13,563.87	20,443.06	19,495.41	407.00	540.65
Fish Warden.....	25.00	25.00	25.00		
Forest Warden.....	100.00	100.00	53.70		43.30
Health Department:					
Administration.....	16,591.67	16,591.67	16,499.95		91.72
Dental Clinic.....	2,113.33	2,113.33	1,519.64		593.69
Hospitals.....	42,905.00	42,905.00	41,454.95		1,450.05
Laboratories and Milk Inspection.....	7,620.00	7,620.00	7,207.71		812.29
Medical Inspection of School Children.....	11,470.00	11,470.00	10,010.63		1,459.37
Tuberculosis Dispensary.....	1,909.00	1,909.00	1,835.76		223.25
Law Department.....	7,602.64	8,102.64	8,086.46		16.18
License Commissioners.....	500.40	500.40	500.40		
Mayor.....	8,539.53	8,539.53	8,187.98		351.65

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1918.
GENERAL FUND—Continued.
(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Municipal Debt:					
Interest—City Debt,.....	\$293,015.75	\$293,015.75	\$293,015.75		\$27.84
Interest—Temporary Loans,.....	30,000.00	39,000.00	38,972.16		244.19
Interest—Trust Funds,.....	1,000.00	1,000.00	755.81		
Serials—City Debt,.....	316,700.00	316,700.00	316,700.00		
Sinking Funds—City Debt,.....	43,000.00	43,000.00	43,000.00		
Municipal Market,.....	6,000.00	6,000.00	5,797.24		202.76
Police Department,.....	309,661.55	318,861.55	298,390.82		20,470.73
Printing, Committee on,.....	3,915.00	4,165.00	4,122.07		42.93
Public Buildings:					
Administration,.....	6,091.75	7,241.75	7,211.88	\$6.00	23.87
Schools—Maintenance,.....	47,505.88	44,925.88	44,213.44	139.50	572.94
Schools—Operation,.....	182,550.82	209,724.12	206,239.17		3,424.95
Municipal Group Buildings,.....	45,918.33	47,132.33	46,890.77	113.70	127.86
Municipal Heating Plant,.....	23,616.32	34,643.47	34,071.47	463.00	124.00
Militia Rifle Range,.....	669.00	669.00	605.03		63.97
Militia Library,.....	85,853.55	85,853.55	85,853.55		
Public Parks:					
Administration,.....	16,060.00	18,412.97	18,381.68		31.29
Operation,.....	102,951.12	104,748.15	102,776.39		1,971.76
Public Safety, Committee on,.....	17,314.50	33,386.84	33,345.54		41.30
Public Works, Board of,.....	2,289.50	2,489.50	1,774.89		714.61
Refunds,.....	45,000.00	45,000.00	40,858.50		4,141.50
Registrars of Voters,.....	17,470.00	18,470.00	17,482.44		987.56
Reserve for Contingencies,.....	75,000.00	800,000.00	260,924.70		39,075.30
School Department:					
Administration,.....	27,000.87	27,187.47	27,109.43		58.04
Graded Schools and Junior High,.....	589,215.00	607,709.70	601,354.94		6,354.76
Central High School,.....	84,475.00	86,012.50	84,768.08		239.42
Technical High School,.....	90,510.00	90,997.50	84,452.43		8,545.02
High School of Commerce,.....	97,780.00	98,342.50	94,664.56		3,677.84
Vocational,.....	19,975.00	19,975.00	18,637.50		1,337.50

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1913.

GENERAL FUND—Continued.

(Schedule E.)

Department	Original	As Modified To Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Evening Schools—Elementary.....	\$5,140.00	\$5,140.00	\$2,894.78		\$2,245.22
Evening Schools—High.....	6,735.00	6,735.00	4,552.14		2,182.86
Evening School of Trades.....	8,280.00	8,280.00	5,696.28		2,583.72
Evening School—Vocational.....	1,331.00	4,473.50	3,704.89		768.61
Kindergartens.....	39,178.75	41,123.75	39,631.85		1,496.90
High Schools.....	38,784.00	38,784.00	27,274.31		11,509.69
High Schools Lunch.....	8,000.00	8,251.00	5,245.69		5.31
Summer Schools.....	360.00	360.00	275.25		84.75
Smoke Inspector.....	19,652.00	20,023.34	19,053.25		970.09
Soldiers' and Sailors' Benefits.....			734.96		115.04
Soldiers' and Sailors' Graves, Care of.....					
Streets and Engineering, Department of:					
Administration.....	35,237.73	35,237.73	32,340.65	\$192.25	2,754.83
Engineering.....	30,922.45	26,472.45	22,701.04	54.25	3,717.16
Sewers.....	60,546.84	53,546.84	57,343.10	85.60	1,118.14
Garbage Collection.....	27,347.36	30,347.36	29,356.53		990.83
Ashes and Refuse Disposal.....	85,353.68	103,853.68	101,764.20		2,094.48
Street Cleaning.....	94,533.35	100,233.35	100,056.98		231.37
Highways.....	235,433.24	311,316.04	303,353.89	5,415.92	2,546.23
Bridges.....	17,354.95	30,801.84	30,482.70	319.14	2,240.70
Sidewalks and Curbing.....	39,576.08	33,576.08	30,714.03	621.35	2,852.26
Street Sprinkling.....	14,062.50	14,062.50	11,210.24		3,155.77
Street Oiling.....	35,643.12	25,123.12	21,957.35		1,600.21
Street Lighting.....	141,375.94	141,375.94	139,767.73	18.00	1,996.92
Repair Shops.....	19,900.53	25,590.53	23,480.81	23.30	4,269.18
Stables and Yards.....	92,946.35	108,421.85	101,897.67	2,255.00	296.50
Tax Exemptions, Soldiers and Sailors.....	1,200.00	1,200.00	903.50		31.30
Weights and Measures, Sealer of.....	3,378.00	6,518.32	5,117.02	370.00	440.43
Wires, Inspector of.....	2,384.00	2,569.00	2,118.57		506.03
Workmen's Compensation.....	3,400.00	3,400.00	2,893.97		506.03
Special Accounts:					
Chestnut Street School Addition.....	4,367.62	4,367.62	2,786.64		1,580.98
Indian Orchard Fire Station.....	7,140.74	7,140.74	5,411.00		1,729.74

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1918.
GENERAL FUND—Continued.
(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Military Relief Commission	\$10,000.00	\$32,500.00	\$32,500.00		\$1,000.00
Revision of Ordinances.....	1,000.00	1,000.00			298.42
Technical High School Addition.....	6,000.00	6,000.00	6,000.00		64.15
Credits Available for Re-Appropriation:					151.15
Fire Department.....		298.42			147.79
Health Department.....		64.15			74.52
Police Department.....		151.15			4,861.02
Public Buildings, Department of.....		147.79			16.00
Public Parks, Department of.....		74.52			36,383.64
School Department.....		4,861.02			
Soldiers' and Sailors' Benefits.....		16.00			
Streets and Engineering, Department of.....		36,383.64			
	\$4,382,596.75	\$4,928,687.76	\$4,641,579.91	\$24,617.83	\$262,490.02
Special Accounts (Carried Forward):					
Army Training School No. 1.....	\$25,000.00	\$25,000.00	\$24,997.86		\$2.14
Army Training School No. 2.....	42,000.00	42,000.00	26,296.36		15,704.65
Gerrish Park.....	886.01	886.01			886.01
Liberty School.....	100,000.00	100,000.00	77,086.83	\$2,885.44	20,927.73
Stores—Department of Public Buildings.....	2,500.00	2,500.00	1,779.19	386.90	820.91
Stores—Department of Streets and Engineering.....	46,000.00	46,000.00	3,663.12	6,870.95	41,892.17
Toll Bridge Repairs.....	10,000.00	11,260.00	11,142.55		87.45
Van Horn Park.....	1,272.56	1,272.56			1,272.56
	\$226,553.56	\$227,553.56	\$137,738.66	\$10,098.29	\$79,796.61
	\$4,608,955.31	\$5,156,246.32	\$4,779,318.57	\$34,711.12	\$342,216.63

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1918.
CAPITAL FUND.
(Schedule E.)

Department	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Boston Road School, Additions and Alterations,.....	\$601.00	\$601.00		
Brightwood School Addition,.....	16,377.70	16,377.70		\$27,142.55
Dwight Street Underpass,.....	27,142.55			53,683.23
Dwight Street Widening,.....	\$60,000.00	711,416.77		20,984.20
Fulton Street Widening,.....	21,203.72	111,323.53		3,450.75
Hooker School,.....	151,642.37	111,323.53	\$36,574.78	
Howard Street Addition,.....	4,501.40	447.50		
Land for Schoolhouse Purposes, Berkshire Avenue,.....	1,500.00	100.00		3,900.00
Municipal Group,.....	59,373.17	17,984.09	1,500.00	
Technical High School, Additional Land,.....	181,437.51	116,405.17		41,889.08
Washington Street School,.....	48,747.31	30.00	8,787.95	11,294.39
Water Street Underpass,.....	25,653.54	25,653.54		48,711.31
Water Street Widening,.....	5,304.75	4,152.76		1,153.99
Wayfare Lodge,.....	\$1,293,511.33	\$1,005,133.10	\$41,812.73	\$246,565.50

APPROPRIATION CHARGES

(Exclusive of Encumbrances)

FOR THE

FISCAL YEAR ENDED NOVEMBER 30, 1918.

GENERAL FUND.

Code.

GF ADMINISTRATION OF TRUST FUNDS:

GF 00	Personal Services,.....		\$400.00
GF 20	Fixed Charges and Contributions,.....		25.00
21	Rents,.....	\$25.00	
			\$425.00

GS ASSESSORS:

GS 00	Personal Services,.....		\$21,143.48
GS 10	Services other than Personal,.....		3,617.30
11	Transportation of Persons,.....	88.65	
12	Transportation of Things,.....	10.04	
13	Subsistence and Support of Persons,....	90.25	
15	Communication Service,.....	518.22	
16	Printing, Engraving, etc.,.....	2,806.66	
17	Advertising and Publications,.....	43.38	
19	Miscellaneous Services,.....	61.10	
GS 20	Fixed Charges and Contributions,.....		25.00
29	Miscellaneous Fixed Charges,.....	25.00	
GS 30	Supplies,.....		205.56
31	Office Supplies,.....	205.56	
			24,991.34

PB BUILDING COMMISSIONER:

PB 00	Personal Services,.....		\$18,820.13
PB 10	Services other than Personal,.....		1,105.22
11	Transportation of Persons,.....	255.73	
13	Subsistence and Support of Persons,....	32.55	
14	Care of Animals and Vehicles,.....	594.93	
15	Communication Service,.....	45.00	
16	Printing, Engraving, etc.,.....	138.11	
19	Miscellaneous Services,.....	38.90	
PB 20	Fixed Charges and Contributions,.....		40.00
23	Taxes and Fees Paid by the City,.....	40.00	
PB 30	Supplies,.....		504.14
31	Office Supplies,.....	34.22	
32	Fuel,.....	259.86	
33	Mechanics', Engineers', etc., Supplies, ..	210.06	
PB 40	Materials,.....		22.50
42	Metals and Metal Products,.....	4.40	
44	Lumber and Wood Products,.....	18.10	
PB 50	Equipment,.....		12.09
52	Production, Construction, and Convey- ing Equipment,.....	10.40	
54	Furniture and Furnishings,.....	1.69	
			20,504.08
Forward,.....			\$45,920.42

City Auditor's Report.

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Forward,.....		\$45,920.42	
Coda.			
OS CELEBRATIONS:			
OS 20	Fixed Charges and Contributions,.....	\$3,200.00	
25	Contributions to Persons and Institutions,.....	\$3,200.00	
			<u>\$3,200.00</u>
			8,200.00
CC CHARITIES, DEPARTMENT OF:			
CCA ADMINISTRATION.			
CCA 00	Personal Services,.....	\$3,696.75	
01	Salaries and Wages,.....	8,694.50	
09	Fees and Compensation,.....	2.25	
CCA 10	Services other than Personal,.....	421.16	
11	Transportation of Persons,.....	136.36	
12	Transportation of Things,.....	1.57	
13	Subsistence and Support of Persons,....	.40	
15	Communication Service,.....	141.06	
16	Printing, Engraving, etc.,.....	138.07	
19	Miscellaneous Services,.....	8.70	
CCA 20	Fixed Charges and Contributions,.....	2,000.00	
29	Miscellaneous Fixed Charges,.....	2,000.00	
CCA 30	Supplies,.....	65.90	
31	Office Supplies,.....	51.40	
38	Medical, Surgical, etc., Supplies,.....	14.50	
CCA 50	Equipment,.....	1,189.70	
52	Production, Construction, and Equipment,.....	1,098.57	
54	Furniture and Furnishings,.....	91.13	
			<u>12,373.51</u>
CCH ALMSHOUSE.			
CCH 00	Personal Services,.....	\$15,067.75	
01	Salaries and Wages,.....	15,040.75	
09	Fees and Compensation,.....	27.00	
CCH 10	Services other than Personal,.....	2,856.70	
11	Transportation of Persons,.....	1.10	
12	Transportation of Things,.....	33.45	
14	Subsistence and Care of Animals and Vehicles,.....	436.30	
15	Communication Service,.....	36.45	
16	Printing, Engraving, etc.,.....	5.09	
17	Advertising and Publications,.....	7.04	
18	Light, Heat, Power, and Electricity,....	126.79	
19	Miscellaneous Services,.....	1,710.48	
CCH 20	Fixed Charges and Contributions,.....	70.00	
22	Insurance,.....	5.00	
26	Damages to Persons and Property,....	65.00	
CCH 30	Supplies,.....	31,476.58	
31	Office Supplies,.....	55.99	
32	Fuel,.....	13,784.54	
33	Mechanics', Engineers', etc., Supplies,...	291.20	
34	Cleaning and Toilet Supplies,.....	1,248.00	
35	Wearing Apparel, Sewing Supplies,....	1,481.11	
36,	Supplies for Animals,.....	1,899.17	
			<u>61,498.98</u>
Forward,.....		48,971.03	61,498.98

Forward,.....		\$48,971.08	\$61,498.98
Code.			
37	Provisions for Persons,.....	\$10,212.09	
38	Medical, Surgical, etc., Supplies,.....	2,320.73	
39	Miscellaneous Supplies,.....	233.75	
CCH 40	Materials,.....		535.53
42	Metals and Metal Products,.....	65.62	
44	Lumber and Wood Products,.....	223.61	
45	Fiber Products,.....	30.23	
46	Paints and Painters' Supplies,.....	206.56	
49	Miscellaneous Materials,.....	9.56	
CCH 50	Equipment,.....		1,110.21
52	Production, Construction, and Convey- ing Equipment,.....	367.50	
53	Live Stock,.....	237.50	
54	Furniture and Furnishings,.....	448.26	
57	Medical, Surgical, and Laboratory Equipment,.....	6.95	
			<u>50,616.82</u>
CCW WAYFARERS' LODGE.			
CCW 00	Personal Services,.....		\$1,451.79
01	Salaries and Wages,.....	1,449.79	
09	Fees and Compensation,.....	2.00	
CCW 10	Services other than Personal,.....		340.83
14	Care of Animals and Vehicles,.....	15.55	
15	Communication Service,.....	54.45	
16	Printing and Engraving, etc.,.....	6.61	
18	Light, Heat, Power and Electricity,....	17.29	
19	Miscellaneous Services,.....	246.98	
CCW 30	Supplies,.....		3,966.95
31	Office Supplies,.....	7.70	
32	Fuel,.....	3,755.18	
33	Mechanics', Engineers', etc., Supplies,.	110.07	
34	Cleaning and Toilet Supplies,.....	12.54	
37	Provisions for Persons,.....	81.51	
CCW 40	Materials,.....		108.68
42	Metal and Metal Products,.....	20.73	
44	Lumber and Wood Products,.....	42.99	
46	Paints and Painters' Supplies,.....	44.96	
CCW 50	Equipment,.....		117.85
51	Heat, Light, etc., Equipment,.....	100.00	
52	Production, Construction, and Convey- ing Equipment,.....	11.38	
54	Furniture and Furnishings,.....	6.47	
			<u>5,986.15</u>
CCR OUTSIDE RELIEF.			
CCR 20	Fixed Charges and Contributions,.....	\$47,170.56	
25	Contributions to Persons and Institu- tions,.....	47,170.56	
			<u>47,170.56</u>
Forward,.....			<u>\$165,267.46</u>

City Auditor's Report.

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Forward,.....		\$165,267.46
Code.		
GA CITY AUDITOR:		
GA 00	Personal Services,.....	\$10,628.79
GA 10	Services other than Personal,.....	727.19
11	Transportation of Persons,.....	\$51.57
12	Transportation of Things,.....	.42
13	Subsistence and Support of Persons,...	82.85
15	Communication Service,.....	59.20
16	Printing, Engraving, etc.,.....	484.80
17	Advertising and Publications,.....	3.55
19	Miscellaneous Services,.....	44.80
GA 30	Supplies,.....	159.15
31	Office Supplies,.....	153.65
33	Medical, Surgical, etc., Supplies,.....	5.25
39	Miscellaneous Supplies,.....	.25
GA 50	Equipment,.....	485.11
54	Furniture and Furnishings,.....	485.11
		12,000.24
GK CITY CLERK:		
GK 00	Personal Services,.....	\$3,693.20
GK 10	Services other than Personal,.....	2,509.06
12	Transportation of Things,.....	.35
15	Communication Service,.....	1,695.12
16	Printing, Engraving, etc.,.....	347.48
17	Advertising and Publications,.....	68.78
19	Miscellaneous Services,.....	397.33
GK 30	Supplies,.....	125.91
31	Office Supplies,.....	58.81
39	Miscellaneous Supplies,.....	67.10
		11,328.17
GR CITY COLLECTOR:		
GR 00	Personal Services,.....	\$14,900.20
01	Salaries and Wages,.....	14,891.75
09	Fees and Compensation,.....	8.45
GR 10	Services other than Personal,.....	4,973.32
11	Transportation of Persons,.....	56.39
12	Transportation of Things,.....	24.03
13	Subsistence of Persons,.....	44.55
15	Communication Service,.....	3,969.96
16	Printing, Engraving, etc.,.....	461.19
17	Advertising and Publications,.....	83.20
19	Miscellaneous Services,.....	334.00
GR 20	Fixed Charges and Contributions,.....	378.00
21	Rents,.....	6.00
22	Insurance,.....	372.00
GR 30	Supplies,.....	269.36
31	Office Supplies,.....	260.56
33	Mechanics', Engineers', etc., Supplies,...	.05
34	Cleaning and Toilet Supplies,.....	.50
38	Medical, Surgical, etc., Supplies,.....	8.25
GR 50	Equipment,.....	1,095.50
54	Furniture and Furnishings,.....	1,095.50
		21,616.38
Forward,.....		\$210,212.25

Forward,..... \$210,312.25

Code.

GC CITY COUNCIL:

GC 00	Personal Services,.....		\$2,536.00
01	Salaries and Wages,.....	\$1,888.20	
09	Fees and Compensation,.....	652.80	
GC 10	Services other than Personal,.....		778.01
11	Transportation of Persons,.....	64.24	
13	Subsistence of Persons,.....	46.45	
15	Communication Service,.....	49.60	
16	Printing, Engraving, etc.,.....	188.94	
17	Advertising, Publications, etc.,.....	428.78	
19	Miscellaneous Services,.....	2.00	
GC 20	Fixed Charges and Contributions,.....		7.25
23	Taxes and Fees Paid by the City,.....	7.25	
GC 30	Supplies,.....		168.08
31	Office Supplies,.....	24.64	
39	Miscellaneous Supplies,.....	143.44	
			3,489.34

GP CITY PLANNING COMMISSION:

GP 10	Services other than Personal,.....		\$14.09
16	Printing, Engraving, etc.,.....	14.09	
			14.09

GT CITY TREASURER:

GT 00	Personal Services,.....		\$10,691.49
GT 10	Services other than Personal,.....		782.17
11	Transportation of Persons,.....	38.56	
12	Transportation of Things,.....	1.16	
13	Subsistence of Persons,.....	30.25	
15	Communication Service,.....	229.53	
16	Printing, Engraving, etc.,.....	200.07	
19	Miscellaneous Services,.....	282.60	
GT 20	Fixed Charges and Contributions,.....		289.00
22	Insurance,.....	269.00	
29	Miscellaneous Fixed Charges,.....	20.00	
GT 30	Supplies,.....		214.88
31	Office Supplies,.....	218.63	
33	Medical, Surgical, etc., Supplies,.....	1.25	
GT 50	Equipment,.....		430.00
54	Furniture and Furnishings,.....	430.00	
			12,407.54

OH DAMAGES—LAND:

OH 60	Lands, Buildings and Capital Outlay,.....		\$490.00
67	Damages, Awards, etc.,.....	490.00	
			490.00

OD DAMAGES—PERSONS AND PROPERTY:

OD 20	Fixed Charges and Contributions,.....		\$2,657.76
26	Damages to Persons and Property,.....	2,657.76	
			2,657.76

Forward,..... \$229,270.98

Forward, ...		\$329,270.98
Code.		
PF FIRE DEPARTMENT:		
PFA ADMINISTRATION.		
PFA 00 Personal Services, ...	\$11,548.45	
PFA 10 Services other than Personal, ...	75.89	
11 Transportation of Persons, ...	\$2.59	
16 Printing, Engraving, etc., ...	73.80	
PFA 30 Supplies, ...	14.91	
31 Office Supplies, ...	14.91	
		11,639.25
PFO OPERATION.		
PFO 00 Personal Services, ...	\$255,979.79	
PFO 10 Services other than Personal, ...	9,658.92	
11 Transportation of Persons, ...	58.45	
12 Transportation of Things, ...	139.04	
13 Subsistence of Persons, ...	38.00	
14 Care of Animals and Vehicles, ...	2,323.89	
15 Communication Service, ...	761.44	
16 Printing, Engraving, etc., ...	24.32	
18 Light, Heat, Power, and Electricity, ...	3,126.71	
19 Miscellaneous Services, ...	3,187.07	
PFO 20 Fixed Charges and Contributions, ...	4,296.22	
23 Taxes and Fees Paid by the City, ...	12.00	
24 Pensions, ...	4,272.07	
26 Damages to Persons and Property, ...	12.15	
PFO 30 Supplies, ...	17,503.67	
31 Office Supplies, ...	47.25	
32 Fuel, ...	12,295.63	
33 Mechanics', Engineers', etc., Supplies, ..	2,946.11	
34 Cleaning and Toilet Supplies, ...	896.38	
35 Wearing and Sewing Supplies, ...	691.63	
37 Provisions for Persons, ...	80.97	
38 Medical, Surgical, etc., Supplies, ...	409.86	
39 Miscellaneous Supplies, ...	136.84	
PFO 40 Materials, ...	1,046.85	
41 Raw Materials, ...	1.12	
42 Metals and Metal Products, ...	315.05	
43 Non-Metallic Mineral Products, ...	26.00	
44 Lumber and Wood Products, ...	268.28	
45 Fiber Products, ...	67.61	
46 Paints and Painters' Materials, ...	363.79	
PFO 50 Equipment, ...	3,322.84	
51 Heat, Light, etc., Equipment, ...	190.21	
52 Production, Construction, and Convey- ing Equipment, ...	3,818.61	
54 Furniture and Furnishings, ...	338.16	
55 Property and Life Preserving Equip- ment, ...	4,259.61	
56 Educational, etc., Equipment, ...	22.75	
57 Medical, etc., Equipment, ...	189.40	
59 Miscellaneous Equipment, ...	4.10	
PFO 60 Land, Structures and Capital Outlay, ...	500.00	
64 Excavations, etc., ...	500.00	
		297,308.29
Forward, ...		\$538,218.52

Forward,.....		\$538,218.52	
Coda.			
PFF FIRE ALARM SYSTEM:			
PFF 00	Personal Services,.....	\$11,659.50	
PFF 10	Services other than Personal,.....	4,891.90	
11	Transportation of Persons,.....	\$5.18	
12	Transportation of Things,.....	19.73	
13	Subsistence of Persons,.....	1.00	
14	Care of Animals and Vehicles,.....	385.80	
15	Communication Service,.....	.60	
18	Light, Heat, Power, etc.,.....	127.88	
19	Miscellaneous Services,.....	3,851.71	
PFF 20	Fixed Charges and Contributions,.....		1,150.00
24	Pensions,.....	1,150.00	
PFF 30	Supplies,.....		65.75
31	Office Supplies,.....	2.27	
33	Mechanics', Engineers', etc., Supplies,...	56.13	
39	Miscellaneous Supplies,.....	7.35	
PFF 40	Materials,.....		66.70
41	Raw Materials,.....	5.00	
42	Metals and Metal Products,.....	30.58	
44	Lumber and Wood Products,.....	16.13	
46	Paints and Painters' Supplies,.....	14.99	
PFF 50	Equipment,.....		2,161.56
51	Heat, Light, etc., Equipment,.....	2,141.06	
52	Production, Construction, and Convey- ing Equipment,.....	15.00	
54	Furniture and Furnishings,.....	5.50	
			19,495.41
PD FISH WARDEN:			
PD 00	Personal Services,.....	\$25.00	
			25.00
PN FOREST WARDEN:			
PN 00	Personal Services,.....	\$56.70	
			56.70
PH HEALTH DEPARTMENT:			
PHA ADMINISTRATION.			
PHA 00	Personal Services,.....	\$15,030.18	
PHA 10	Services other than Personal,.....	1,066.34	
11	Transportation of Persons,.....	397.20	
12	Transportation of Things,.....	17.64	
13	Subsistence of Persons,.....	21.40	
15	Communication Service,.....	263.30	
16	Printing, Engraving, etc.,.....	263.25	
19	Miscellaneous Services,.....	103.55	
PHA 20	Fixed Charges and Contributions,.....		50.00
29	Miscellaneous Fixed Charges,.....	50.00	
PHA 30	Supplies,.....		349.73
31	Office Supplies,.....	122.94	
33	Mechanics', Engineers', etc., Supplies, ..	5.07	
34	Cleaning and Toilet Supplies,.....	1.50	
38	Medical, Surgical, etc., Supplies,.....	220.22	
Forward,.....		\$16,496.25	\$557,795.63

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Forward.....	\$16,496.25	\$557,795.63
Coda.		
PHA 40 Materials.....		3.70
42 Metals and Metal Products.....	\$0.15	
44 Lumber and Wood Products.....	2.40	
46 Paints and Painters' Supplies.....	1.15	
		16,499.95
PHC DENTAL CLINIC.		
PHC 00 Personal Services.....		\$939.23
PHC 10 Services other than Personal.....		344.41
11 Transportation of Persons.....	10.10	
16 Printing, Engraving, etc.....	17.35	
19 Miscellaneous Services.....	316.96	
PHC 30 Supplies.....		164.86
31 Office Supplies.....	8.40	
33 Mechanics', Engineers', etc., Supplies, ..	16.98	
34 Cleaning and Toilet Supplies.....	49.50	
35 Wearing Apparel.....	30.32	
38 Medical Supplies.....	59.66	
PHC 40 Materials.....		3.30
42 Metals and Metal Products.....	3.30	
PHC 50 Equipment.....		67.84
51 Heat, Light, etc., Equipment.....	12.30	
54 Furniture and Furnishings.....	55.54	
		1,519.64
PHH HOSPITALS.		
PHH 00 Personal Services.....		\$11,046.45
PHH 10 Services other than Personal.....		6,935.34
11 Transportation of Persons.....	317.00	
12 Transportation of Things.....	62.78	
15 Communication Service.....	24.15	
16 Printing, Engraving, etc.....	63.38	
13 Light, Heat, Power, etc.....	3,786.08	
19 Miscellaneous Services.....	2,731.95	
PHH 20 Fixed Charges and Contributions.....		5,789.43
25 Contributions to Persons and Institutions.....	5,739.43	
PHH 30 Supplies.....		17,045.90
31 Office Supplies.....	35.30	
33 Mechanics', Engineers', etc., Supplies, ..	89.86	
34 Cleaning and Toilet Supplies.....	719.24	
35 Wearing Apparel.....	922.82	
36 Supplies for Animals.....	1.35	
37 Provisions for Persons.....	13,212.77	
38 Medical, Surgical, etc., Supplies.....	2,056.08	
39 Miscellaneous Supplies.....	8.48	
PHH 40 Materials.....		243.83
42 Metals and Metal Products.....	20.71	
43 Non-Metallic Mineral Products.....	10.35	
45 Fiber Products.....	2.50	
46 Paints and Painters' Supplies.....	210.27	
PHH 50 Equipment.....		394.00
54 Furniture and Furnishings.....	394.00	
		41,454.95
Forward.....		\$617,270.17

Forward,.....		\$617,270.17
Code.		
PHM LABORATORIES AND MILK INSPECTION.		
PHM 00	Personal Services,.....	\$5,299.92
PHM 10	Services other than Personal,.....	1,106.85
PHM 11	Transportation of Persons,.....	\$783.84
12	Transportation of Things,.....	1.09
13	Subsistence of Persons,.....	65.50
15	Communication Service,.....	93.17
16	Printing, Engraving, etc.,.....	40.70
18	Light, Heat, Power, etc.,.....	52.05
19	Miscellaneous Services,.....	120.50
PHM 20	Fixed Charges and Contributions,.....	600.00
21	Rents,.....	600.00
PHM 30	Supplies,.....	196.51
31	Office Supplies,.....	19.72
34	Cleaning and Toilet Supplies,.....	13.11
37	Provisions for Persons,.....	48.88
38	Medical Supplies,.....	114.80
39	Miscellaneous Supplies,.....	.50
PHM 40	Materials,.....	.98
42	Metals and Metal Products,.....	.35
45	Fiber Products,.....	.58
PHM 50	Equipment,.....	3.50
54	Furniture and Furnishings,.....	3.50
		7,207.71
PHI MEDICAL INSPECTION OF SCHOOL CHILDREN.		
PHI 00	Personal Services,.....	\$9,581.22
PHI 10	Services other than Personal,.....	310.05
11	Transportation of Persons,.....	219.30
16	Printing, Engraving, etc.,.....	83.75
19	Miscellaneous Services,.....	2.00
PHI 30	Supplies,.....	109.41
35	Wearing Apparel,.....	4.52
38	Medical Supplies,.....	92.89
39	Miscellaneous Supplies,.....	12.00
PHI 50	Equipment,.....	9.95
54	Furniture and Furnishings,.....	9.95
		10,010.63
PHD TUBERCULOSIS DISPENSARY.		
PHD 00	Personal Services,.....	\$983.32
PHD 10	Services other than Personal,.....	413.21
11	Transportation of Persons,.....	137.61
13	Subsistence of Persons,.....	13.40
15	Communication Service,.....	4.45
18	Light, Heat, Power, etc.,.....	3.01
19	Miscellaneous Services,.....	254.74
PHD 20	Fixed Charges and Contributions,.....	276.00
21	Rents,.....	276.00
PHD 30	Supplies,.....	63.22
31	Office Supplies,.....	5.44
34	Cleaning and Toilet Supplies,.....	5.75
35	Wearing Apparel,.....	12.00
38	Medical Supplies,.....	40.03
		1,685.75
Forward,.....		\$636,174.26

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Forward.....		\$696,174.26
Coda.....		
GL LAW DEPARTMENT:		
GL 00 Personal Services.....		\$6,721.49
01 Salaries and Wages.....	\$5,766.71	
09 Fees and Compensation.....	964.78	
GL 10 Services other than Personal.....		978.70
11 Transportation of Persons.....	117.44	
12 Transportation of Things.....	5.09	
13 Subsistence of Persons.....	105.17	
15 Communication Service.....	138.42	
16 Printing, Engraving, etc.....	194.31	
17 Advertising, Publications, etc.....	2.90	
19 Miscellaneous Services.....	415.37	
GL 20 Fixed Charges and Contributions.....		101.44
23 Taxes and Fees Paid by City.....	51.44	
29 Miscellaneous Fixed Charges.....	50.00	
GL 30 Supplies.....		129.55
31 Office Supplies.....	129.55	
GL 50 Equipment.....		155.23
54 Furniture and Furnishings.....	155.23	
		3,086.46
GI LICENSE COMMISSIONERS:		
GI 00 Personal Services.....		\$400.00
GI 10 Services other than Personal.....		100.40
16 Printing, Engraving, etc.....	100.40	
		500.40
GM MAYOR:		
GM 00 Personal Services.....		\$6,496.58
GM 10 Services other than Personal.....		1,556.91
11 Transportation of Persons.....	34.40	
13 Subsistence of Persons.....	368.60	
14 Care of Vehicles.....	918.37	
15 Communication Service.....	106.58	
16 Printing, Engraving, etc.....	104.46	
19 Miscellaneous Services.....	24.50	
GM 30 Supplies.....		47.36
31 Office Supplies.....	25.41	
32 Fuel.....	1.40	
39 Miscellaneous Supplies.....	20.55	
GM 50 Equipment.....		87.08
54 Furniture and Furnishings.....	87.08	
		3,187.93
DD MUNICIPAL DEBT:		
DD PRINCIPAL.....		\$316,700.00
DDA City Debt Serials.....	316,700.00	
DDC Sinking Funds.....		43,000.00
DI INTEREST.....		332,748.72
DIA City Debt.....	293,015.75	
DIC Temporary Loans.....	38,972.16	
DID Trust Funds.....	755.81	
		692,443.72
Forward.....		\$1,345,392.77

Forward,.....		\$1,845,892.77
Coda.		
OM MUNICIPAL MARKET:		
OM 00	Personal Services,.....	\$1,519.10
OM 10	Services other than Personal,.....	426.80
12	Transportation of Things,.....	\$6.00
15	Communication Service,.....	40.78
17	Advertising and Publications,.....	155.32
19	Miscellaneous Services,.....	224.25
OM 20	Fixed Charges and Contributions,.....	2,995.00
21	Rents,.....	2,995.00
OM 30	Supplies,.....	838.18
39	Miscellaneous Supplies,.....	838.18
OM 40	Materials,.....	.96
42	Metals and Metal Products,.....	.96
OM 50	Equipment,.....	17.70
52	Production, Construction, and Convey- ing Equipment,.....	2.00
54	Furniture and Furnishings,.....	15.70
		5,797.24
PP POLICE DEPARTMENT:		
PP 00	Personal Services,.....	\$256,021.27
01	Salaries and Wages,.....	255,521.18
09	Fees and Compensation,.....	500.09
PP 10	Services other than Personal,.....	14,725.11
11	Transportation of Persons,.....	1,664.85
12	Transportation of Things,.....	251.63
13	Subsistence of Persons,.....	2,381.25
14	Care of Animals and Vehicles,.....	1,891.60
15	Communication Service,.....	1,813.58
16	Printing, Engraving, etc.,.....	1,087.40
17	Advertising, Publications, etc.,.....	64.81
18	Light, Heat, Power, etc.,.....	3,777.89
19	Miscellaneous Services,.....	1,792.60
PP 20	Fixed Charges and Contributions,.....	10,890.79
21	Rents,.....	6.00
22	Insurance,.....	17.50
23	Taxes and Fees Paid by City,.....	98.27
24	Pensions,.....	10,089.52
26	Damages to Persons and Property,.....	69.50
29	Miscellaneous Fixed Charges,.....	600.00
PP 30	Supplies,.....	12,030.16
31	Office Supplies,.....	625.03
32	Fuel,.....	3,347.78
33	Mechanics', Engineers', etc., Supplies,...	5,023.19
34	Cleaning and Toilet Supplies,.....	1,067.14
35	Wearing Apparel,.....	1,434.78
37	Provisions for Persons,.....	126.14
38	Medical Supplies,.....	113.72
39	Miscellaneous Supplies,.....	292.43
PP 40	Materials,.....	121.57
42	Metals and Metal Products,.....	23.12
44	Lumber and Wood Products,.....	66.29
Forward,.....		\$298,723.90 \$1,851,190.01

Forward.....		\$298,728.90	\$1,851,190.01
Code.			
45	Fiber Products.....	\$10.50	
46	Paints and Painters' Supplies.....	21.68	
PP 50	Equipment.....		4,661.92
51	Heat, Light, etc., Equipment.....	12.59	
52	Production, Construction, and Conveying Equipment.....	2,602.45	
54	Furniture and Furnishings.....	495.46	
55	Property and Life Preserving Equip- ment.....	963.36	
56	Educational Equipment.....	10.00	
59	Miscellaneous Equipment.....	578.06	
			298,390.82
GY PRINTING, COMMITTEE ON:			
GY 00	Personal Services.....	\$600.00	
GY 10	Services other than Personal.....	3,446.28	
12	Transportation of Things.....	24.01	
15	Communication Service.....	4.20	
16	Printing, Engraving, etc.....	3,147.80	
19	Miscellaneous Services.....	270.27	
GY 30	Supplies.....		75.79
31	Office Supplies.....	75.79	
			4,122.07
WB PUBLIC BUILDINGS, DEPARTMENT OF:			
WBA ADMINISTRATION.			
WBA 00	Personal Services.....	\$5,691.07	
WBA 10	Services other than Personal.....	220.48	
15	Communication Service.....	140.74	
16	Printing, Engraving, etc.....	54.78	
17	Advertising, Publications, etc.....	23.66	
19	Miscellaneous Services.....	1.30	
WBA 20	Fixed Charges and Contributions.....		100.00
29	Miscellaneous Fixed Charges.....	100.00	
WBA 30	Supplies.....		50.38
31	Office Supplies.....	50.38	
WBA 50	Equipment.....		1,150.00
52	Production, Construction, and Conveying Equipment.....	1,150.00	
			7,211.88
WBSM SCHOOLS—MAINTENANCE.			
WBSM 00	Personal Services.....	\$13,577.01	
WBSM 10	Services other than Personal.....	21,103.38	
11	Transportation of Persons.....	155.77	
12	Transportation of Things.....	141.75	
19	Miscellaneous Services.....	20,805.86	
WBSM 30	Supplies.....		335.89
32	Fuel.....	7.80	
33	Mechanics', Engineers', etc., Supplies..	323.32	
34	Cleaning and Toilet Supplies.....	3.27	
35	Wearing Apparel.....	1.50	
WBSM 40	Materials.....		5,277.38
42	Metals and Metal Products.....	957.66	
43	Non-Metallic Products.....	160.85	
			\$40,593.66
Forward.....		\$1,660,914.78	

Forward,.....		\$40,593.66	\$1,660,914.78
Code.			
44	Lumber and Wood Products,.....	\$1,100.08	
45	Fiber Products,.....	5.84	
46	Paints and Painters' Supplies,.....	1,831.28	
47	Electrical Materials,.....	1,221.72	
WBSM 50	Equipment,.....		3,619.78
51	Heat, Light, etc., Equipment,.....	733.50	
52	Production, Construction, and Convey- ing Equipment,.....	44.64	
54	Furniture and Furnishings,.....	2,841.64	
			44,213.44
WBSO SCHOOLS—OPERATION.			
WBSO 00	Personal Services,.....	\$95,267.23	
WBSO 10	Services other than Personal,.....	12,555.98	
12	Transportation of Things,.....	368.08	
14	Care of Animals and Vehicles,.....	130.14	
18	Light, Heat, Power, etc.,.....	9,383.70	
19	Miscellaneous Services,.....	2,669.06	
WBSO 20	Fixed Charges and Contributions,.....		740.98
22	Insurance,.....	193.34	
23	Taxes and Fees Paid by City,.....	114.02	
24	Pensions,.....	433.62	
WBSO 30	Supplies,.....		97,583.52
32	Fuel,.....	94,508.29	
33	Mechanics', Engineers', etc., Supplies, ..	761.61	
34	Cleaning and Toilet Supplies,.....	1,919.21	
37	Provisions for Persons,.....	9.73	
38	Medical Supplies,.....	12.68	
39	Miscellaneous Supplies,.....	372.00	
WBSO 50	Equipment,.....		151.46
52	Production, Construction, and Convey- ing Equipment,.....	24.96	
55	Property and Life Preserving Equipment,	126.50	
			206,299.17
WBG MUNICIPAL GROUP:			
WBG 00	Personal Services,.....	\$31,195.42	
WBG 10	Services other than Personal,.....	10,392.25	
12	Transportation of Things,.....	50.44	
13	Subsistence of Persons,.....	40.00	
15	Communication Service,.....	1,312.03	
16	Printing, Engraving, etc.,.....	14.81	
18	Light, Heat, Power, etc.,.....	3,283.09	
19	Miscellaneous Services,.....	5,686.83	
WBG 30	Supplies,.....		3,140.07
31	Office Supplies,.....	.60	
33	Mechanics', Engineers', etc., Supplies, ..	253.06	
34	Cleaning and Toilet Supplies,.....	2,183.22	
35	Wearing Apparel,.....	106.54	
37	Provisions for Persons,.....	441.60	
39	Miscellaneous Supplies,.....	150.05	
Forward,.....		\$44,727.74	\$1,911,427.39

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Forward.....		\$44,727.74	\$1,911,427.39
Coda.			
WBG 40 Materials.....		979.48	
42 Metals and Metal Products.....	\$200.06		
43 Non-Metallic Products.....	26.80		
44 Lumber and Wood Products.....	101.44		
45 Fiber Products.....	17.23		
46 Paints and Painters' Materials.....	437.83		
47 Electrical Materials.....	196.07		
WBG 50 Equipment.....		1,183.55	
52 Production, Construction, and Convey-			
ing Equipment.....	30.00		
54 Furniture and Furnishings.....	923.67		
55 Property and Life Preserving Equipment,	229.88		
			46,890.77
WBH MUNICIPAL HEATING PLANT:			
WBH 00 Personal Services.....		\$3,883.12	
WBH 10 Services other than Personal.....		309.33	
11 Transportation of Persons.....	.44		
12 Transportation of Things.....	1.86		
13 Heat, Light, Power, etc.....	179.96		
19 Miscellaneous Services.....	127.07		
WBH 30 Supplies.....		24,590.54	
32 Fuel.....	24,254.12		
33 Mechanics', Engineers', etc., Supplies..	233.33		
34 Cleaning and Toilet Supplies.....	40.74		
37 Provisions for Persons.....	7.30		
WBH 40 Materials.....		42.84	
42 Metals and Metal Products.....	15.21		
43 Non-Metallic Products.....	1.70		
46 Paints and Painters' Materials.....	24.83		
47 Electrical Materials.....	.60		
WBH 50 Equipment.....		241.14	
52 Production, Construction, and Convey-			
ing Equipment.....	87.12		
54 Furniture and Furnishings.....	1.35		
55 Property and Life Preserving Equipment,	152.67		
			34,071.47
WBR MILITIA RIFLE RANGE:			
WBR 00 Personal Services.....		\$423.15	
WBR 20 Fixed Charges and Contributions.....		181.88	
22 Insurance.....	32.83		
23 Taxes and Fees Paid by City.....	149.00		
			605.03
WB 215 STORES.....			1,779.19
EL PUBLIC LIBRARY:			
EL 20 Fixed Charges and Contributions.....		\$85,853.55	
25 Contributions to Persons and Institutions,	85,853.55		
			85,853.55
Forward.....			\$2,080,627.40

Forward,.....		\$2,080,627.40
Code.		
RP PUBLIC PARKS, DEPARTMENT OF:		
RPA ADMINISTRATION.		
RPA 00 Personal Services,.....	\$17,890.21	
RPA 10 Services other than Personal,.....	286.81	
15 Communication Service,.....	\$218.78	
16 Printing, Engraving, etc.,.....	67.58	
RPA 20 Fixed Charges and Contributions,.....	197.76	
21 Rents,.....	2.00	
22 Insurance,.....	42.90	
23 Taxes and Fees Paid by City,.....	152.86	
RPA 30 Supplies,.....	2.90	
31 Office Supplies,.....	2.90	
RPA 50 Equipment,.....	4.50	
54 Furniture and Furnishings,.....	4.50	
		18,881.68
RPO OPERATION.		
RPO 00 Personal Services,.....	\$76,887.50	
RPO 10 Services other than Personal,.....	1,416.58	
12 Transportation of Things,.....	8.60	
14 Care of Animals and Vehicles,.....	304.14	
15 Communication Service,.....	9.77	
16 Printing, Engraving, etc.,.....	85.95	
18 Light, Heat, Power, etc.,.....	295.82	
19 Miscellaneous Services,.....	767.75	
RPO 20 Fixed Charges and Contributions,.....	177.15	
21 Rents,.....	160.00	
23 Taxes and Fees Paid by City,.....	17.15	
RPO 30 Supplies,.....	20,637.62	
31 Office Supplies,.....	28.89	
32 Fuel,.....	5,429.92	
33 Mechanics', Engineers', etc., Supplies, ..	2,618.47	
34 Cleaning and Toilet Supplies,.....	149.57	
35 Wearing Apparel,.....	210.61	
36 Supplies for Animals,.....	8,887.44	
37 Provisions for Persons,.....	558.92	
38 Medical Supplies,.....	724.00	
39 Miscellaneous Supplies,.....	2,084.80	
RPO 40 Materials,.....	1,847.04	
41 Raw Materials,.....	199.59	
42 Metals and Metal Products,.....	552.58	
43 Non-Metallic Products,.....	434.89	
44 Lumber and Wood Products,.....	242.80	
45 Fiber Products,.....	71.44	
46 Paints and Painters' Materials,.....	346.29	
RPO 50 Equipment,.....	1,760.55	
51 Heat, Light, etc., Equipment,.....	44.11	
52 Production, Construction, and Convey- ing Equipment,.....	1,716.44	
		102,776.39
Forward,.....		\$2,201,785.47

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Forward.....		\$2,201,785.47
Code.		
OP PUBLIC SAFETY, COMMITTEE ON:		
OP 00	Personal Services.....	\$11,028.90
01	Salaries and Wages.....	\$10,990.40
09	Fees and Compensations.....	88.50
OP 10	Services other than Personal.....	8,756.78
11	Transportation of Persons.....	741.18
12	Transportation of Things.....	2,592.68
13	Subsistence of Persons.....	382.14
15	Communication Service.....	480.00
16	Printing, Engraving, etc.....	929.85
17	Advertising, Publications, etc.....	189.43
18	Light, Heat, Power, etc.....	478.24
19	Miscellaneous Services.....	2,968.26
OP 20	Fixed Charges and Contributions.....	3,162.90
21	Rents.....	2,656.58
22	Insurance.....	23.50
23	Taxes and Fees Paid by City.....	8.00
25	Contributions to Persons, etc.....	174.82
29	Miscellaneous Fixed Charges.....	300.00
OP 30	Supplies.....	6,868.68
31	Office Supplies.....	301.91
32	Fuel.....	39.16
33	Mechanics', Engineers', etc., Supplies..	7.02
34	Cleaning and Toilet Supplies.....	44.87
35	Wearing Apparel.....	1,064.91
37	Provisions for Persons.....	2,277.83
38	Medical Supplies.....	378.60
39	Miscellaneous Supplies.....	2,254.28
OP 40	Materials.....	62.26
42	Metals and Metal Products.....	31.82
44	Lumber and Wood Products.....	30.94
OP 50	Equipment.....	3,966.17
51	Heat, Light, Power, etc.....	66.40
52	Production, Construction, and Convey- ing Equipment.....	100.65
54	Furniture and Furnishings.....	1,910.42
55	Property and Life Preserving Equipment,	1,887.33
59	Miscellaneous Equipment.....	1.37
		83,345.54
GW PUBLIC WORKS, BOARD OF:		
GW 00	Personal Services.....	\$1,511.54
01	Salaries and Wages.....	1,401.54
09	Fees and Compensations.....	110.00
GW 10	Services other than Personal.....	229.64
11	Transportation of Persons.....	34.20
15	Communication Service.....	.10
16	Printing, Engraving, etc.....	10.54
17	Advertising, Publications, etc.....	184.80
GW 30	Supplies.....	30.21
31	Office Supplies.....	30.21
GW 50	Equipment.....	3.50
54	Furniture and Furnishings.....	3.50
		1,774.89
Forward.....		\$2,234,965.90

Forward.....		\$2,236,905.90
Code.		
OA REFUNDS:		
OA 90	Miscellaneous Items, ...	\$40,858.50
	Auditorium Rentals, ...	\$92.00
	Dance Licenses, ...	2.00
	Fees—Municipal Market, ...	2.00
	Garbage Disposal, ...	18.71
	Liquor Licenses, ...	39,656.42
	School Tuition, ...	694.25
	Sewer Fees, ...	384.12
	Street Permits, ...	9.00
		40,858.50
GV REGISTRARS OF VOTERS, BOARD OF:		
GV 00	Personal Services, ...	\$10,191.62
GV 10	Services other than Personal, ...	6,291.48
11	Transportation of Persons, ...	211.02
12	Transportation of Things, ...	390.81
14	Care of Animals and Vehicles, ...	7.50
15	Communication Service, ...	242.53
16	Printing, Engraving, etc., ...	4,764.94
17	Advertising and Publications, ...	283.34
19	Miscellaneous Services, ...	385.84
GV 20	Fixed Charges and Contributions, ...	759.53
21	Rents, ...	759.53
GV 30	Supplies, ...	199.81
31	Office Supplies, ...	88.53
33	Mechanics', Engineers', etc., Supplies, ..	31.21
39	Miscellaneous Supplies, ...	80.07
GV 40	Materials, ...	40.00
42	Metals and Metal Products, ...	40.00
		17,482.44
OC RESERVE FOR CONTINGENCIES:		
Sundry Transfers.		
	Army Training School, ...	\$35,000.00
	Assessors, ...	150.00
	Building Department, ...	350.00
	Celebrations, ...	2,100.00
	Charities, Department of, ...	4,200.00
	City Auditor, ...	558.00
	City Clerk, ...	260.00
	City Collector, ...	225.00
	City Council, ...	977.00
	City Treasurer, ...	337.77
	Fire Department, ...	22,700.00
	Forest Warden, ...	100.00
	Interest—Temporary Loans, ...	9,000.00
	Law Department, ...	500.00
	License Commissioners, ...	.40
	Military Relief Commissioner, ...	22,500.00
	Ordinance Revision, ...	1,000.00
	Police Department, ...	9,200.00
	Printing, Committee on, ...	250.00
Forward, ...		\$99,403.17 \$2,295,246.84

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Forward,.....	\$99,408.17	\$2,295,246.84
Code.		
Public Buildings, Department of,.....	33,242.15	
Public Parks, Department of,.....	4,150.00	
Public Safety, Committee on,.....	16,000.00	
Public Works, Board of,.....	200.00	
Registrars of Voters, Board of,.....	1,000.00	
School Department,.....	33,142.50	
Soldiers' and Sailors' Benefits,.....	376.34	
Toll Bridge Repairs,.....	11,200.00	
Water Street Widening,.....	57,265.22	
Wayfarers' Lodge,.....	2,625.00	
Weights and Measures, Sealer of,.....	2,140.32	
Wire Inspection,.....	175.00	
		260,924.70
ES SCHOOLS:		
ESA GENERAL ADMINISTRATION.		
ESA 00 Personal Services,.....	\$22,017.47	
ESA 10 Services other than Personal,.....	4,235.81	
11 Transportation of Persons,.....	\$235.57	
12 Transportation of Things,.....	1,600.20	
13 Subsistence of Persons,.....	150.76	
14 Care of Animals and Vehicles,.....	251.25	
15 Communication Service,.....	866.07	
16 Printing, Engraving, etc.,.....	1,035.07	
17 Advertising, Publication, etc.,.....	36.89	
19 Miscellaneous Service,.....	60.00	
ESA 20 Fixed Charges and Contributions,.....		308.00
21 Rents,.....	8.00	
29 Miscellaneous Fixed Charges,.....	300.00	
ESA 30 Supplies,.....		392.16
31 Office Supplies,.....	383.86	
32 Fuel,.....	.05	
34 Cleaning and Toilet Supplies,.....	2.25	
39 Miscellaneous Supplies,.....	6.00	
ESA 40 Materials,.....		1.95
42 Metals and Metal Products,.....	1.95	
ESA 50 Equipment,.....		154.04
54 Furniture and Furnishings,.....	154.04	
		27,109.43
ESG GRADED SCHOOLS AND JUNIOR HIGH.		
ESG 00 Personal Services,.....	\$538,702.29	
ESG 10 Services other than Personal,.....	7,592.16	
11 Transportation of Persons,.....	2,590.10	
12 Transportation of Things,.....	546.94	
13 Subsistence of Persons,.....	952.36	
15 Communication Service,.....	1,450.26	
16 Printing, Engraving, etc.,.....	1,521.82	
17 Advertising and Publications,.....	.45	
19 Miscellaneous Services,.....	530.23	
ESG 30 Supplies,.....		47,694.04
31 Office Supplies,.....	41,868.48	
33 Mechanics', Engineers', etc., Supplies, ..	182.65	
34 Cleaning and Toilet Supplies, ...	1,663.24	
Forward,.....	\$593,988.49	\$2,583,280.97

Forward,.....		\$598,988.49	\$2,588,280.97
Code.			
35	Wearing Apparel,.....	\$856.78	
36	Supplies for Animals,.....	4.90	
37	Provisions for Persons,.....	2,728.89	
38	Medical Supplies,.....	196.72	
39	Miscellaneous Supplies,.....	192.98	
ESG 40	Materials,.....		3,568.14
41	Raw Materials,.....	8.47	
42	Metal and Metal Products,.....	698.02	
43	Non-Metallic Products,.....	15.84	
44	Lumber and Wood Products,.....	2,829.87	
45	Fiber Products,.....	12.65	
46	Paints and Painters' Materials,.....	508.29	
ESG 50	Equipment,.....		3,798.81
51	Heat, Light, etc., Equipment,.....	12.06	
52	Production, Construction, and Convey- ing Equipment,.....	492.14	
54	Furniture and Furnishings,.....	696.88	
56	Educational Equipment,.....	2,597.28	
			601,854.94
ESC CENTRAL HIGH SCHOOL.			
ESC 00	Personal Services,.....	\$77,998.36	
ESC 10	Services other than Personal,.....	1,215.84	
11	Transportation of Persons,.....	102.09	
12	Transportation of Things,.....	46.62	
13	Subsistence of Persons,.....	70.62	
15	Communication Service,.....	77.06	
16	Printing, Engraving, etc.,.....	602.89	
19	Miscellaneous Services,.....	316.56	
ESC 20	Fixed Charges and Contributions,.....		75.00
21	Rents,.....	75.00	
ESC 30	Supplies,.....		4,831.18
31	Office Supplies,.....	4,859.41	
33	Mechanics', Engineers', etc., Supplies,...	20.49	
34	Cleaning and Toilet Supplies,.....	.06	
35	Wearing Apparel,.....	77.97	
36	Supplies for Animals,.....	.25	
37	Provisions for Persons,.....	114.20	
38	Medical Supplies,.....	226.58	
39	Miscellaneous Supplies,.....	32.17	
ESC 40	Materials,.....		58.15
42	Metals and Metal Products,.....	8.32	
44	Lumber and Wood Products,.....	2.41	
45	Fiber Products,.....	.81	
46	Paints and Painters' Materials,.....	46.61	
ESC 50	Equipment,.....		574.60
51	Heat, Light, etc., Equipment,.....	10.44	
52	Production, Construction, and Convey- ing Equipment,.....	4.64	
54	Furniture and Furnishings,.....	76.62	
56	Educational Equipment,.....	482.90	
			84,753.08
Forward,.....			\$3,269,888.99

Forward,..... \$3,269,888.90

Code.

EST TECHNICAL HIGH SCHOOL.

EST 00	Personal Services,.....	\$76,701.39	
EST 10	Services other than Personal,.....	1,172.36	
11	Transportation of Persons,.....	\$57.80	
12	Transportation of Things,.....	99.80	
13	Subsistence of Persons,.....	30.87	
15	Communication Service,.....	231.82	
16	Printing, Engraving, etc.,.....	437.79	
19	Miscellaneous Services,.....	314.23	
EST 20	Fixed Charges and Contributions,.....	75.00	
21	Rents,.....	75.00	
EST 30	Supplies,.....	3,168.36	
31	Office Supplies,.....	2,464.86	
32	Fuel,.....	30.00	
33	Mechanics', Engineers', etc., Supplies, ..	202.40	
34	Cleaning and Toilet Supplies,.....	19.91	
35	Wearing Apparel,.....	112.00	
37	Provisions for Persons,.....	228.15	
38	Medical Supplies,.....	72.98	
39	Miscellaneous Supplies,.....	38.06	
EST 40	Materials,.....	1,157.33	
41	Raw Materials,.....	23.40	
42	Metals and Metal Products,.....	593.49	
44	Lumber and Wood Products,.....	496.60	
46	Paints and Painters' Materials,.....	44.39	
EST 50	Equipment,.....	2,177.49	
51	Heat, Light, etc., Equipment,.....	141.70	
52	Production, Construction, and Convey- ing Equipment,.....	1,008.54	
54	Furniture and Furnishings,.....	30.64	
56	Educational Equipment,.....	989.86	
57	Medical Equipment,.....	6.75	

84,452.48

ESH HIGH SCHOOL OF COMMERCE.

ESH 00	Personal Services,.....	\$31,704.58	
ESH 10	Services other than Personal,.....	1,929.26	
11	Transportation of Persons,.....	34.69	
12	Transportation of Things,.....	104.16	
13	Subsistence of Persons,.....	23.81	
15	Communication Service,.....	54.66	
16	Printing, Engraving, etc.,.....	505.84	
17	Advertising and Publications,.....	25.92	
19	Miscellaneous Services,.....	1,180.18	
ESH 20	Fixed Charges and Contributions,.....	75.00	
21	Rents,.....	75.00	
ESH 30	Supplies,.....	7,740.50	
31	Office Supplies,.....	6,469.70	
33	Mechanics', Engineers', etc., Supplies, ..	39.61	
34	Cleaning and Toilet Supplies,.....	316.16	
35	Wearing Apparel,.....	118.47	
37	Provisions for Persons,.....	438.34	

Forward,..... \$91,449.34 \$3,353,341.47

Forward.....		\$91,449.34	\$3,353,341.47
Code.			
38	Medical Supplies,.....	\$339.15	
39	Miscellaneous Supplies,.....	19.07	
ESH 40	Materials,.....		420.39
42	Metals and Metal Products,.....	69.98	
44	Lumber and Wood Products,.....	285.46	
46	Paints and Painters' Materials,.....	64.95	
ESH 50	Equipment,.....		2,794.93
51	Heat, Light, etc., Equipment,.....	235.94	
52	Production, Construction, and Convey- ing Equipment,.....	76.73	
54	Furniture and Furnishings,.....	1,764.93	
56	Educational Equipment,.....	717.33	
			34,664.66
ESV VOCATIONAL SCHOOL.			
ESV 00	Personal Services,.....	\$12,548.71	
ESV 10	Services other than Personal,.....		343.18
11	Transportation of Persons,.....	5.18	
12	Transportation of Things,.....	72.30	
13	Subsistence of Persons,.....	1.70	
15	Communication Service,.....	65.82	
17	Advertising and Publications,.....	.90	
19	Miscellaneous Services,.....	202.33	
ESV 30	Supplies,.....		2,476.67
31	Office Supplies,.....	1,946.77	
33	Mechanics', Engineers', etc., Supplies,...	153.13	
34	Cleaning and Toilet Supplies,.....	325.75	
38	Medical Supplies,.....	3.64	
39	Miscellaneous Supplies,.....	42.33	
ESV 40	Materials,.....		698.23
42	Metals and Metal Products,.....	462.60	
44	Lumber and Wood Products,.....	208.30	
46	Paints and Painters' Materials,.....	27.48	
ESV 50	Equipment,.....		2,565.66
51	Heat, Light, etc., Equipment,.....	433.65	
52	Production, Construction, etc.,.....	1,027.39	
54	Furniture and Furnishings,.....	.90	
56	Educational Equipment,.....	1,103.72	
			18,637.50
ESEG EVENING SCHOOLS—ELEMENTARY.			
ESEG 00	Personal Services,.....	\$2,829.00	
ESEG 30	Supplies,.....		65.78
31	Office Supplies,.....	65.78	
			2,894.73
ESEH EVENING SCHOOLS—HIGH.			
ESEH 00	Personal Services,.....	\$4,085.50	
ESEH 10	Services other than Personal,.....		165.02
11	Transportation of Persons,.....	9.41	
12	Transportation of Things,.....	2.96	
13	Subsistence of Persons,.....	3.70	
15	Communication Service,.....	54.00	
16	Printing, Engraving, etc.,.....	54.71	
Forward.....		\$4,250.52	\$3,470,933.41

Forward, ...		\$4,250.52	\$3,470,083.41
Code.			
19	Miscellaneous Services, ...	\$40.24	
ESEH 30	Supplies, ...		301.62
31	Office Supplies, ...	260.02	
35	Wearing Apparel, ...	8.60	
39	Miscellaneous Supplies, ...	33.00	
			<u>4,552.14</u>
ESTR EVENING SCHOOLS—EVENING SCHOOL OF TRADES.			
ESTR 00	Personal Services, ...	\$5,503.25	
ESTR 10	Services other than Personal, ...		35.12
16	Printing, Engraving, etc., ...	29.12	
17	Advertising, Publications, etc., ...	6.00	
ESTR 30	Supplies, ...		100.21
33	Mechanics', Engineers', etc., Supplies, ..	94.96	
35	Wearing Apparel, ...	5.25	
ESTR 40	Materials, ...		57.65
42	Metals and Metal Products, ...	57.65	
			<u>5,696.23</u>
ESVE EVENING SCHOOLS—VOCATIONAL.			
ESVE 00	Personal Services, ...	\$3,550.45	
ESVE 10	Services other than Personal, ...		26.23
16	Printing, Engraving, etc., ...	5.92	
17	Advertising, Publications, etc., ...	10.36	
19	Miscellaneous Services, ...	10.00	
ESVE 20	Fixed Charges and Contributions, ...		30.00
29	Miscellaneous Fixed Charges, ...	30.00	
ESVE 30	Supplies, ...		33.30
33	Mechanics', Engineers', etc., Supplies, ..	33.30	
ESVE 40	Materials, ...		44.04
42	Metals and Metal Products, ...	44.04	
ESVE 50	Equipment, ...		15.82
52	Production, Construction, and Convey- ing Equipment, ...	9.82	
56	Educational Equipment, ...	6.00	
			<u>3,704.89</u>
ESK KINDERGARTENS.			
ESK 00	Personal Services, ...	\$33,105.20	
ESK 10	Services other than Personal, ...		27.74
12	Transportation of Things, ...	12.74	
19	Miscellaneous Services, ...	15.00	
ESK 20	Fixed Charges and Contributions, ...		50.00
25	Contributions to Persons, ...	50.00	
ESK 30	Supplies, ...		837.05
31	Office Supplies, ...	783.61	
35	Wearing Apparel, ...	45.84	
39	Miscellaneous Supplies, ...	7.60	
ESK 40	Materials, ...		42.96
41	Raw Materials, ...	34.00	
42	Metals and Metal Products, ...	8.06	
44	Lumber and Wood Products, ...	.15	
46	Paints and Painters' Materials, ...	.75	
Forward, ...		\$39,062.95	\$3,483,991.67

Forward.....		\$39,062.95	\$3,483,991.67
Code.			
ESK 50	Equipment.....	568.90	
54	Furniture and Furnishings.....	\$308.90	
56	Educational Equipment.....	260.00	
			39,631.85
ESL HIGH SCHOOLS LUNCH.			
ESL 00	Personal Services.....	\$3,003.91	
ESL 10	Services other than Personal.....	295.24	
11	Transportation of Persons.....	30.07	
12	Transportation of Things.....	5.21	
15	Communication Service.....	54.50	
16	Printing, Engraving, etc.....	7.95	
17	Advertising, Publication, etc.....	.85	
19	Miscellaneous Services.....	196.66	
ESL 20	Fixed Charges and Contributions.....	800.00	
29	Miscellaneous Fixed Charges.....	800.00	
ESL 30	Supplies.....	17,938.85	
31	Office Supplies.....	16.15	
34	Cleaning and Toilet Supplies.....	19.88	
35	Wearing Apparel.....	6.95	
37	Provisions for Persons.....	17,847.94	
39	Miscellaneous Supplies.....	47.93	
ESL 40	Materials.....	4.77	
46	Paints and Painters' Materials.....	4.77	
ESL 50	Equipment.....	231.54	
52	Production, Construction, and Convey- ing Equipment.....	2.40	
54	Furniture and Furnishings.....	229.14	
			27,274.31
ESS SUMMER SCHOOLS.			
ESS 00	Personal Services.....	\$7,997.00	
ESS 10	Services other than Personal.....	86.86	
16	Printing, Engraving, etc.....	36.86	
19	Miscellaneous Services.....	50.00	
ESS 30	Supplies.....	161.83	
31	Office Supplies.....	161.83	
			8,245.69
PS SMOKE INSPECTOR:			
PS 00	Personal Services.....	\$250.00	
PS 10	Services other than Personal.....	15.75	
19	Miscellaneous Services.....	15.75	
PS 30	Supplies.....	9.50	
31	Office Supplies.....	9.50	
			275.25
SA SOLDIERS' AND SAILORS' BENEFITS:			
SA 00	Personal Services.....	\$1,184.94	
SA 10	Services other than Personal.....	79.90	
11	Transportation of Persons.....	1.54	
12	Transportation of Things.....	26.40	
15	Communication Service.....	25.63	
16	Printing, Engraving, etc.....	16.33	
Forward.....		\$1,264.84	\$3,559,413.77

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Forward, ...		\$1,264.84	\$3,559,418.77
Coda.			
19 Miscellaneous Services, ...	\$10.00		
SA 20 Fixed Charges and Contributions, ...		17,767.23	
25 Contributions to Persons, etc., ...	17,767.23		
SA 30 Supplies, ...		26.18	
31 Office Supplies, ...	26.18		
			19,058.25
SC SOLDIERS' AND SAILORS' GRAVES, CARE OF:			
SC 00 Personal Services, ...		\$99.96	
SC 10 Services other than Personal, ...		685.00	
19 Miscellaneous Services, ...	685.00		
			784.96
WS STREETS AND ENGINEERING.			
WSA ADMINISTRATION.			
WSA 00 Personal Services, ...		\$25,441.88	
WSA 10 Services other than Personal, ...		4,717.06	
11 Transportation of Persons, ...	941.82		
12 Transportation of Things, ...	23.92		
13 Subsistence of Persons, ...	245.72		
15 Communication Service, ...	849.18		
16 Printing, Engraving, etc., ...	1,318.08		
17 Advertising, Publications, etc., ...	186.39		
18 Heat, Light, Power, etc., ...	1,028.80		
19 Miscellaneous Services, ...	123.15		
WSA 20 Fixed Charges and Contributions, ...		1,262.40	
21 Rents, ...	29.50		
23 Taxes and Fees Paid by City, ...	58.55		
24 Pensions, ...	874.35		
29 Miscellaneous Fixed Charges, ...	300.00		
WSA 30 Supplies, ...		911.75	
31 Office Supplies, ...	818.35		
33 Mechanics', Engineers', etc., Supplies, ..	.50		
34 Cleaning and Toilet Supplies, ...	.15		
35 Wearing Apparel, ...	.50		
37 Provisions for Persons, ..	18.95		
38 Medical Supplies, ...	3.15		
39 Miscellaneous Supplies, ...	70.15		
WSA 50 Equipment, ...		8.06	
52 Production, Construction, and Convey- ing Equipment, ...	.30		
54 Furniture and Furnishings, ...	4.50		
56 Educational Equipment, ...	3.26		
			\$2,340.65
WSE ENGINEERING.			
WSE 00 Personal Services, ...		\$22,120.22	
WSE 10 Services other than Personal, ...		211.45	
11 Transportation of Persons, ...	3.60		
12 Transportation of Things, ...	10.47		
16 Printing, Engraving, etc., ..	82.68		
19 Miscellaneous Services, ...	114.70		
Forward, ...		\$22,331.67	\$3,611,552.63

Forward,.....		\$22,331.67	\$3,611,552.63
Code.			
WSE 30	Supplies,.....		266.52
31	Office Supplies,.....	\$264.48	
33	Mechanics', Engineers', etc., Supplies, ..	1.20	
33	Medical Supplies,.....	.84	
WSE 40	Materials,.....		2.75
42	Metals and Metal Products,.....	2.75	
WSE 50	Equipment,.....		100.10
52	Production, Construction, and Convey- ing Equipment,.....	.65	
54	Educational Equipment,.....	99.45	
			22,701.04
WSS SEWERS.			
WSS 00	Personal Services,.....	\$36,983.02	
WSS 10	Services other than Personal,.....		994.00
11	Transportation of Persons,.....	7.90	
12	Transportation of Things,.....	253.51	
15	Communication Service,.....	2.80	
19	Miscellaneous Services,.....	729.79	
WSS 30	Supplies,.....		266.09
32	Fuel,.....	178.23	
33	Mechanics', Engineers', etc., Supplies, ..	1.89	
34	Cleaning and Toilet Supplies,.....	71.54	
35	Wearing Apparel,.....	10.50	
39	Miscellaneous Supplies,.....	3.93	
WSS 40	Materials,.....		19,099.99
41	Raw Materials,.....	802.92	
42	Metals and Metal Products,.....	5,005.84	
43	Non-Metallic Products,.....	13,178.26	
44	Lumber and Wood Products,.....	110.14	
49	Miscellaneous Materials,.....	2.83	
			57,343.10
WSG GARBAGE COLLECTION.			
WSG 00	Personal Services,.....	\$27,932.37	
WSG 10	Services other than Personal,.....		1,404.20
19	Miscellaneous Services,.....	1,404.20	
WSG 20	Fixed Charges and Contributions,.....		19.55
23	Taxes and Fees Paid by City,.....	19.55	
WSG 40	Materials,.....		.41
46	Paints and Painters' Materials,.....	.41	
			29,356.53
WSR ASHES AND REFUSE DISPOSAL.			
WSR 00	Personal Services,.....	\$98,368.06	
WSR 10	Services other than Personal,.....		3,395.39
15	Communication Service,.....	.71	
17	Advertising and Publications,.....	7.50	
19	Miscellaneous Services,.....	3,387.18	
WSR 40	Materials,.....		.75
46	Paints and Painters' Materials,.....	.75	
			101,764.20
Forward,.....		\$3,622,717.50	

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Forward,.....			\$3,822,717.50
Code.			
WSC STREET CLEANING.			
WSC 00	Personal Services,.....	\$99,628.46	
WSC 10	Services other than Personal,.....	34.05	
19	Miscellaneous Services,.....	\$34.05	
WSC 30	Supplies,.....		282.78
32	Fuel,.....	13.57	
33	Mechanics', Engineers', etc., Supplies,...	4.03	
34	Cleaning and Toilet Supplies,.....	.28	
35	Wearing Apparel,.....	264.90	
WSC 40	Materials,.....		111.69
41	Raw Materials,.....	44.19	
43	Non-Metallic Products,.....	67.39	
44	Lumber and Wood Products,.....	.11	
			100,056.98
WSH HIGHWAYS.			
WSH 00	Personal Services,.....	\$156,695.45	
WSH 10	Services other than Personal,.....	17,900.61	
12	Transportation of Things,.....	11,772.47	
13	Subsistence of Persons,.....	21.75	
15	Communication Service,.....	14.43	
19	Miscellaneous Services,.....	6,091.96	
WSH 20	Fixed Charges and Contributions,.....		16.00
23	Taxes and Fees Paid by City,.....	16.00	
WSH 30	Supplies,.....		7,091.35
32	Fuel,.....	6,863.57	
33	Mechanics', Engineers', etc., Supplies,...	179.08	
34	Cleaning and Toilet Supplies,.....	20.66	
38	Medical Supplies,.....	22.54	
39	Miscellaneous Supplies,.....	5.50	
WSH 40	Materials,.....		121,559.48
41	Raw Materials,.....	59,811.00	
42	Metals and Metal Products,.....	599.72	
43	Non-Metallic Products,.....	33,020.13	
44	Lumber and Wood Products,.....	27,871.17	
45	Fiber Products,.....	3.90	
46	Painters and Painters' Materials,.....	253.56	
WSH 50	Equipment,.....		91.00
52	Production, Construction, and Convey- ing Equipment,.....	88.45	
57	Medical Equipment,.....	2.55	
			303,353.89
WSB BRIDGES.			
WSB 00	Personal Services,.....	\$16,485.19	
01	Salaries and Wages,.....	16,455.19	
09	Fees and Compensation,.....	30.00	
WSB 10	Services other than Personal,.....		3,575.23
11	Transportation of Persons,.....	19.76	
19	Miscellaneous Services,.....	3,555.52	
WSB 20	Fixed Charges and Contributions,.....		27.00
21	Rents,.....	27.00	
Forward,.....		\$20,087.47	\$4,226,123.37

Forward.....		\$20,087.47	\$4,226,123.87
Code.			
WSB 30	Supplies.....		\$110.81
32	Fuel.....	\$29.43	
33	Mechanics' Engineers', etc., Supplies,...	69.58	
34	Cleaning and Toilet Supplies.....	7.65	
38	Medical Supplies.....	.65	
39	Miscellaneous Supplies.....	3.50	
WSB 40	Materials.....		10,283.32
41	Raw Materials.....	595.74	
42	Metals and Metal Products.....	604.21	
43	Non-Metallic Products.....	3,656.45	
44	Lumber and Wood Products.....	4,847.67	
45	Fiber Products.....	1.35	
46	Paints and Painters' Materials.....	352.70	
49	Miscellaneous Materials.....	223.20	
WSB 50	Equipment.....		1.10
52	Production, Construction, and Convey- ing Equipment.....	.75	
57	Medical Equipment.....	.35	
			30,482.70
WSW SIDEWALKS AND CURBING.			
WSW 00	Personal Services.....		\$18,325.68
WSW 10	Services other than Personal.....		241.71
12	Transportation of Things.....	241.71	
WSW 30	Supplies.....		39.31
32	Fuel.....	34.27	
33	Mechanics', Engineers', etc., Supplies, ..	5.04	
WSW 40	Materials.....		12,106.88
41	Raw Materials.....	8,969.12	
42	Metals and Metal Products.....	18.16	
43	Non-Metallic Products.....	2,960.20	
44	Lumber and Wood Products.....	159.16	
46	Paints and Painters' Materials.....	.24	
WSW 50	Equipment.....		.45
52	Production, Construction, and Convey- ing Equipment.....	.45	
			30,714.03
WSK STREET SPRINKLING.			
WSK 00	Personal Services.....		\$5,681.45
WSK 10	Services other than Personal.....		5,527.74
19	Miscellaneous Services.....	5,527.74	
WSK 30	Supplies.....		1.05
32	Fuel.....	1.05	
			11,210.24
WSO STREET OILING.			
WSO 00	Personal Services.....		\$3,178.47
WSO 10	Services other than Personal.....		2.61
19	Miscellaneous Services.....	2.61	
WSO 30	Supplies.....		.05
32	Fuel.....	.05	
WSO 40	Materials.....		18,776.22
41	Raw Materials.....	18,776.22	
			21,957.35
Forward.....			\$4,320,492.69

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Forward.....		\$4,320,492.69	
Code.			
WSL STREET LIGHTING.			
WSL 00	Personal Services.....	\$2,059.56	
WSL 10	Services other than Personal.....	137,663.98	
11	Transportation of Persons.....	16.69	
12	Transportation of Things.....	.96	
13	Subsistence of Persons.....	10.95	
15	Communication Service.....	.10	
18	Light, Heat, Power, etc.....	137,597.13	
19	Miscellaneous Services.....	33.15	
WSL 30	Supplies.....		20.78
31	Office Supplies.....	20.58	
39	Miscellaneous Supplies.....	.20	
WSL 50	Equipment.....		13.41
52	Production, Construction, and Convey- ing Equipment.....	11.73	
56	Educational Equipment.....	.10	
57	Medical Equipment.....	1.58	
			139,757.73
WSP REPAIR SHOPS.			
WSP 00	Personal Services.....	\$21,089.73	
WSP 10	Services other than Personal.....	67.00	
12	Transportation of Things.....	67.00	
WSP 30	Supplies.....		1,146.52
32	Fuel.....	519.63	
33	Mechanics', Engineers', etc., Supplies..	521.92	
34	Cleaning and Toilet Supplies.....	75.34	
37	Provisions for Persons.....	7.20	
38	Medical Supplies.....	1.04	
39	Miscellaneous Supplies.....	21.39	
WSP 40	Materials.....		1,209.20
41	Raw Materials.....	2.70	
42	Metals and Metal Products.....	466.26	
43	Non-Metallic Products.....	37.62	
44	Lumber and Wood Products.....	400.99	
45	Fiber Products.....	41.23	
46	Paints and Painters' Materials.....	259.89	
49	Miscellaneous Materials.....	.51	
WSP 50	Equipment.....		17.86
52	Production, Construction, and Convey- ing Equipment.....	17.86	
			23,480.31
WSY STABLES AND YARDS.			
WSY 00	Personal Services.....	\$42,815.39	
WSY 10	Services other than Personal.....	7,945.30	
11	Transportation of Persons.....	18.23	
12	Transportation of Things.....	4,009.19	
13	Subsistence of Persons.....	1.50	
14	Care of Animals and Vehicles.....	2,227.88	
15	Communication Service.....	2.50	
18	Heat, Light, Power, etc.....	72.90	
19	Miscellaneous Services.....	1,613.10	
Forward.....		\$50,260.69	\$4,483,730.73

Forward,.....		\$50,260.69	\$4,483,730.72
Code.			
WSY 20	Fixed Charges and Contributions,.....		94.49
22	Insurance,.....	\$33.90	
23	Taxes and Fees Paid by City,.....	60.59	
WSY 30	Supplies,.....		30,550.07
31	Office Supplies,.....	.59	
32	Fuel,.....	10,211.17	
33	Mechanics', Engineers', etc., Supplies,...	3,353.51	
34	Cleaning and Toilet Supplies,.....	390.97	
35	Wearing Apparel,.....	234.58	
36	Supplies for Animals,.....	16,138.65	
38	Medical Supplies,.....	13.60	
39	Miscellaneous Supplies,.....	207.00	
WSY 40	Materials,.....		4,650.64
41	Raw Materials,.....	198.63	
42	Metals and Metal Products,.....	2,225.16	
43	Non-Metallic Products,.....	425.19	
44	Lumber and Wood Products,.....	877.13	
45	Fiber Products,.....	126.57	
46	Paints and Painters' Materials,.....	797.91	
WSY 50	Equipment,.....		16,341.78
52	Production, Construction, and Convey- ing Equipment,.....	16,244.09	
54	Furniture and Furnishings,.....	43.00	
55	Property and Life Preserving Equipment,.....	42.00	
57	Medical Equipment,.....	12.69	
			101,897.67
WS 215	STORES,.....		3,563.12*
SE TAX EXEMPTIONS—SOLDIERS AND SAILORS:			
SE 20	Fixed Charges and Contributions,.....	\$903.50	
23	Taxes and Fees Paid by City,.....	903.50	
			903.50
PM WEIGHTS AND MEASURES, SEALER OF:			
PM 00	Personal Services,.....	\$3,234.37	
PM 10	Services other than Personal,.....	682.98	
11	Transportation of Persons,.....	41.59	
12	Transportation of Things,.....	175.43	
13	Subsistence of Persons,.....	1.10	
14	Care of Animals and Vehicles,.....	282.24	
15	Communication Service,.....	10.03	
16	Printing, Engraving, etc.,.....	64.94	
17	Advertising, Publications, etc.,.....	2.25	
19	Miscellaneous Services,.....	105.40	
PM 20	Fixed Charges and Contributions,.....		8.50
23	Taxes and Fees Paid by City,.....	8.50	
PM 30	Supplies,.....		175.95
31	Office Supplies,.....	49.69	
32	Fuel,.....	64.98	
33	Mechanics', Engineers', etc., Supplies,...	43.38	
38	Medical Supplies,.....	.65	
39	Miscellaneous Supplies,.....	17.25	
Forward,.....		\$4,101.80	\$4,582,963.78

*Credit.

Forward.....		\$4,101.80	\$4,582,968.78
*Code.			
PM 40	Materials.....		44.87
42	Metals and Metal Products.....	\$42.32	
46	Paints and Painters' Materials.....	2.05	
PM 50	Equipment.....		970.85
52	Production, Construction, and Convey- ing Equipment.....	754.11	
54	Furniture and Furnishings.....	96.25	
55	Property and Life Preserving Equipment.....	60.00	
59	Miscellaneous Equipment.....	60.49	
			5,117.02
PW WIRES, INSPECTOR OF:			
PW 00	Personal Services.....		\$350.00
PW 10	Services other than Personal.....		286.92
12	Transportation of Things.....	29.86	
15	Communication Service.....	5.00	
16	Printing, Engraving, etc.....	12.14	
17	Advertising, Publications, etc.....	9.80	
19	Miscellaneous Services.....	230.12	
PW 20	Fixed Charges and Contributions.....		175.00
24	Pensions.....	175.00	
PW 40	Materials.....		47.08
42	Metals and Metal Products.....	47.08	
PW 50	Equipment.....		1,259.57
51	Heat, Light, Power, etc.....	1,259.57	
			2,118.57
*OW WORKMEN'S COMPENSATION:			
*OW 10	Services other than Personal.....		\$692.05
18	Subsistence of Persons.....	155.70	
15	Communication Service.....	43.35	
19	Miscellaneous Services.....	493.00	
*OW 20	Fixed Charges and Contributions.....		2,088.88
26	Damages to Persons and Property.....	1,188.88	
29	Miscellaneous Fixed Charges.....	900.00	
*OW 30	Supplies.....		2.95
38	Medical Supplies.....	2.95	
*OW 50	Equipment.....		10.50
54	Furniture and Furnishings.....	10.50	
OW 90	Items Not Otherwise Classified.....		149.59
			2,893.97
SPECIAL ACCOUNTS:			
	Army Training School, No. 1.....	\$24,997.86	
	Army Training School, No. 2.....	26,295.35	
	Chestnut Street School Addition.....	2,786.64	
	Indian Orchard Fire Station Remodel- ing.....	5,411.00	
	Liberty School.....	77,086.83	
	Military Relief Commission.....	32,500.00	
	Technical High School Addition.....	6,000.00	
	Toll Bridge Repairs.....	11,142.55	
			186,220.23
Total.....			\$4,779,318.57

CAPITAL FUND.

Boston Road School, Addition and Alterations,.....	\$601.00	
Brightwood School Addition,.....	16,377.70	
Dwight Street Widening,.....	711,416.77	
Fulton Street Widening,.....	329.53	
Hooker School (New),.....	111,620.04	
Howard Street School Addition,.....	447.50	
Land for Schoolhouse Purpose, Berkshire Avenue,....	100.00	
Technical High School, Additional Land,.....	17,984.09	
Washington Street School,.....	116,405.17	
Water Street Underpass,.....	30.00	
Water Street Widening,.....	25,663.54	
Wayfarers' Lodge,.....	4,153.76	
		\$1,005,133.10

SPECIAL AND TRUST FUND.

Gurdon Bill Fund,.....	\$130.13	
Helen M. Hooley Fund,.....	29.26	
Sherman D. Porter Fund,.....	63.27	
		\$227.66

GENERAL FUND SURPLUS.
For Year Ended November 30, 1918.
(Schedule F.)

DEBITA.		CREDITS.	
Appropriated in 1918 Budget,.....	\$181,962.14	Surplus, December 1, 1917,.....	\$698,351.85
Reserve for Abatement of Departmental Bills,...	21,505.41	Unencumbered Balances of Appropriations, 1917,...	2,490.02
Deddit in Revenues under Estimate,.....	92,617.51	Unencumbered Balances of Appropriations, 1918,...	262,490.02
		Excess of National Bank Tax,.....	46.87
Surplus, November 30, 1918,.....	\$236,076.06		
	567,303.70		
	\$863,378.76		\$863,378.76

CITY OF SPRINGFIELD, MASSACHUSETTS.
Cash Receipts and Cash Payments of the City Treasury.
(Exclusive of Sinking Fund.)
For the Year Ended November 30, 1918.

SUMMARY.

RECEIPTS.		PAYMENTS.	
General Fund (Schedule G), ...	\$7,233,353.12	General Fund, ...	\$6,957,909.26
Water Fund (Schedule G), ...	515,553.63	Water Fund, ...	507,569.18
Capital Fund (Schedule G), ...	869,890.22	Capital Fund, ...	912,824.83
Special and Trust Fund (Schedule G), ...	4,379.08	Special and Trust Fund, ...	15,227.66
Balance on December 1, 1917, ...	\$3,663,681.10	Balance on November 30, 1918, ...	\$8,338,030.96
	453,886.35		734,536.49
	\$9,122,567.45		\$9,122,567.45

CASH RECEIPTS.

(Schedule G.)

TAXES.

GENERAL FUND.

Year 1918.		
Poll,.....	\$61,812.00	
Personal,.....	455,857.10	
Real,.....	2,880,701.20	
	<u>\$2,898,870.30</u>	
Year 1917.		
Poll,.....	\$2,452.00	
Personal,.....	52,785.09	
Real,.....	749,889.51	
	<u>805,126.60</u>	
Year 1916.		
Poll,.....	\$66.00	
Personal,.....	585.20	
	<u>651.20</u>	
Taxes Paid After Abatement.		
Year 1915,.....	\$2.00	
Year 1916,.....	48.00	
Year 1917,.....	18.02	
Year 1918,.....	8.70	
	<u>71.72</u>	
From the Commonwealth.		
Corporation Tax,.....	\$299,266.08	
Income Tax,.....	398,381.92	
National Bank Tax,.....	5,736.29	
	<u>703,384.24</u>	
		<u>\$4,407,554.06</u>

FEES.

Assessors,.....	\$11.80	
City Clerk,.....	1,392.15	
City Collector,.....	3,302.49	
License Commissioners,.....	404.00	
Lockup,.....	193.20	
Public Sanitary,.....	917.65	
Public Telephone,.....	26.03	
Sealer of Weights and Measures,.....	470.97	
	<u>6,717.79</u>	

FINES.

House of Correction,.....	\$1,389.50	
Police Court,.....	11,043.26	
	<u>12,432.76</u>	

INTEREST.

On Bank Balances.		
City Clerk,.....	\$39.85	
City Collector,.....	1,220.60	
City Treasurer,.....	13,616.02	
	<u>\$14,876.47</u>	
On Bonds Sold,.....	1,522.41	
On Special Assessments,.....	581.96	
On Taxes,.....	25,978.24	
	<u>42,954.08</u>	
Forward,.....		<u>\$4,469,658.69</u>

Forward,.....		\$4,469,658.09
LICENSES.		
Auctioneers,.....	\$48.00	
Bowling Alley,.....	16.00	
Common Victualers,.....	470.00	
Dance,.....	400.00	
Dog,.....	4,853.55	
Elevator Operator,.....	297.50	
Exhibition,.....	475.00	
Express,.....	418.25	
Farmers,.....	26.50	
Fruit and Vegetable Peddler,.....	1,625.00	
Innholder,.....	20.00	
Intelligence Office,.....	26.00	
Jitney,.....	855.00	
Jitney Operator,.....	181.00	
Liquor,.....	150,509.87	
Manicure and Massage,.....	13.00	
Milk,.....	471.50	
Pawnbroker,.....	200.00	
Peddler,.....	375.00	
Pool Room,.....	1,084.00	
Private Detective,.....	10.00	
Rag Gatherers,.....	533.85	
Removal of Dead Animals,.....	2.00	
Second-Hand Dealer,.....	142.45	
Street Musician,.....	2.25	
Sunday Sales,.....	710.00	
Sunday Theater,.....	6,959.00	
Taxicab,.....	166.00	
Theater,.....	1,200.00	
		172,090.52
PERMITS.		
Marriage,.....	\$1,175.00	
Sewer Entrance,.....	6,756.41	
Signs,.....	57.00	
Street Obstruction,.....	3,476.04	
Street Opening,.....	413.39	
		11,892.84
RENTS.		
Administration Building,.....	\$3,097.30	
Auditorium,.....	6,405.70	
Dwight Street Property,.....	3,687.11	
Municipal Organ,.....	115.00	
Miscellaneous,.....	1,984.00	
School Halls,.....	220.50	
School Property,.....	2,679.83	
		13,189.44
SPECIAL ASSESSMENTS.		
Betterments—Street,.....	\$3,471.44	
Sidewalks and Curbing,.....	22,872.97	
Street Watering and Oiling—1918,.....	29,445.50	
Street Watering and Oiling—1917,.....	3,874.01	
		69,163.92
Forward,.....		\$4,740,935.41

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Forward, ...		\$4,740,985.41
TEMPORARY LOANS, ...		2,300,000.00
DEPARTMENTAL		
Army Training School.		
Miscellaneous Sales, ...	\$1,050.00	
Reimbursement by United States Government, ..	25,597.37	
		26,647.37
Building Department.		
Miscellaneous Sales, ...		19.13
Charities, Department of.		
Care at Almshouse.		
Reimbursement by Cities and Towns, ...	\$719.42	
Reimbursement by Individuals, ...	3,781.27	
Reimbursement by State, ...	1,998.62	
		\$6,499.31
Miscellaneous Sales.		
Almshouse Products, ...	\$1,197.33	
Wood, ...	2,395.65	
		3,592.98
Recovered Expenditures.		
From Cities and Towns, ...	\$1,926.33	
From Individuals, ...	895.16	
From State, ...	19,442.17	
		21,763.66
		31,355.95
City Treasurer.		
Miscellaneous Sales, ...		14.00
Damages to Persons and Property.		
Recovered Expenditures, ...		\$90.00
Fire Department.		
Miscellaneous Sales, ...	\$356.27	
Recovered Expenditures, ...	31.00	
		387.27
Health Department.		
Care at Hospital, ...	\$14,709.16	
Recovered Expenditures, ...	86.50	
		14,795.66
Mayor's Department.		
Miscellaneous Sales, ...		42.08
Municipal Market.		
Fees—Automobile Parking, ...	\$147.13	
Fees—Farmers, ...	1,185.30	
Sale of Bags and Baskets, ...	950.94	
		2,283.37
Police Department.		
Miscellaneous Sales, ...	\$1,416.66	
Recovered Expenditures, ...	400.88	
Sale of Uniform Cloth, ...	1,678.40	
		3,495.94
Forward, ...		\$7,121,516.18

Forward,.....		\$7,121,516.18	
Premium on Bonds,.....			4,718.50
Public Buildings, Department of.			
Municipal Group.			
Miscellaneous Sales,.....	\$781.05		
Recovered Expenditures,.....	75.99		
		\$807.04	
School Buildings.			
Miscellaneous Sales,.....	\$85.65		
Recovered Expenditures,.....	155.97		
		241.62	
			1,048.66
Public Parks, Department of.			
Fees—Bathhouse,.....	\$1,042.25		
Miscellaneous Sales,.....	112.80		
Recovered Expenditures—Forestry,.....	196.62		
Recovered Expenditures—Public Parks,.....	6.84		
Rent of Equipment,.....	150.00		
			1,508.51
Public Safety, Committee on.			
Miscellaneous Sales,.....	\$3,580.23		
Recovered Expenditures,.....	1,759.32		
			5,239.55
Schools, Department of.			
Miscellaneous Sales.			
High Schools Lunches,.....	\$26,627.89		
Sundry,.....	914.94		
Vocational School,.....	187.06		
		\$27,679.89	
Moving Picture Receipts,.....		510.05	
Recovered Expenditures.			
Sundry,.....	\$7.87		
Vocational School—From Commonwealth,...	3,595.08		
		8,602.95	
Tuition.			
Central High School,.....	\$3,875.00		
Evening High School,.....	941.62		
Evening School of Trades,.....	1,109.00		
Evening Vocational School,.....	279.00		
Graded Schools,.....	5,870.00		
High School of Commerce,.....	4,210.35		
Summer School,.....	23.50		
Technical High School,.....	6,639.50		
Vocational School,.....	1,673.00		
		24,625.97	
			61,418.86
Soldiers' and Sailors' Benefits.			
Reimbursement by Commonwealth.			
Burial of Indigent Soldiers and Sailors,.....	\$773.10		
Military Aid,.....	20.00		
State Aid,.....	21,046.81		
			21,839.91
Forward,.....			\$7,217,340.17

Forward,.....		\$7,217,840.17
Streets and Engineering, Department of.		
Miscellaneous Sales.		
Buildings,.....	\$2,492.50	
Garbage,.....	8,939.11	
Land,.....	1,800.00	
Sundry,.....	6,859.52	
		\$19,591.13
Recovered Expenditures.		
Ashes and Refuse,.....	\$459.58	
Bridges,.....	3,967.58	
Highways,.....	16,873.01	
Prior Year Expenditures,.....	9,167.51	
Repair Shop,.....	257.00	
Sewers,.....	966.45	
Sidewalks and Curbing,.....	2,783.94	
Stables and Yards,.....	1.45	
Street Cleaning,.....	49.62	
Street Oiling,.....	231.82	
Street Sprinkling,.....	2,530.40	
		37,288.31
Rent of Equipment,.....	4,640.19	
Services—Engineering,.....	1.25	
		61,520.88
Workmen's Compensation Agent.		
Recovered Expenditures,.....		198.65
REFUNDS.		
Departmental.		
Fire,.....	\$62.61	
Health,.....	54.15	
Police,.....	151.15	
Public Buildings, Department of,.....	16.80	
Public Safety Committee on,.....	25.95	
Soldiers' and Sailors' Benefits,.....	16.00	
Streets and Engineering, Department of,.....	3,491.56	
		\$3,818.22
Petty Cash Funds.		
Assessors' Department,.....	\$25.00	
Charities, Department of,.....	2,000.00	
City Collector,.....	50.00	
Health Department,.....	50.00	
High Schools Lunch Department,.....	800.00	
Law Department,.....	50.00	
Police Department,.....	600.00	
Public Buildings, Department of,.....	100.00	
Public Safety, Committee on,.....	300.00	
School Department,.....	800.00	
Streets and Engineering, Department of,.....	300.00	
Workmen's Compensation Agent,.....	900.00	
		5,475.00
		9,293.22
		\$7,288,353.12

Forward,.....		\$7,288,353.12	
WATER FUND.			
REFUNDS.			
Petty Cash,.....	\$500.00		
Sundry,.....	180.07		
		\$680.07	
SALE OF MISCELLANEOUS MATERIAL,.....	\$44,768.87		
SALE OF WATER,.....	470,109.74		
		514,878.61	
			\$515,558.68
CAPITAL FUND.			
REFUNDS.			
Water Street Widening,.....	\$57,265.22		
Wayfarers' Lodge,.....	2,625.00		
		\$59,890.22	
SALE OF BONDS,.....		800,000.00	
			\$859,890.22
SPECIAL AND TRUST FUND.			
INTEREST.			
Gurdon Bill Fund,.....	\$180.67		
Court Square Extension Fund,.....	2,404.40		
Helen M. Hooley Fund,.....	221.81		
Charles S. Marsh Fund,.....	10.41		
McKinley Monument Fund,.....	20.61		
Sherman D. Porter Fund,.....	568.17		
William H. Smith Fund,.....	20.50		
		\$3,426.07	
PRINCIPAL.			
Sherman D. Porter Fund,.....	\$744.17		
Smith-Hughes Fund,.....	708.84		
		1,453.01	
			4,579.08
			\$8,668,681.10

OPERATING STATEMENT.
Year Ended November 30, 1918.

GENERAL FUND.	
Revenues Accrued:	
Taxes.....	\$3,788,497.31
Special Assessments.....	74,213.94
Miscellaneous Sales.....	37,189.89
Miscellaneous Sources.....	1,071,450.52
Recovered Expenditures.....	77,491.94
Expense Incurred (Schedule E).....	\$5,048,843.60
Excess—Revenue over Expense.....	4,888,609.37
	\$180,394.23
WATER FUND.	
Revenues Accrued:	
Water Rates.....	\$474,291.47
Miscellaneous Sales.....	41,090.08
Expense Incurred (Schedule F).....	\$515,321.55
Excess—Revenue over Expense.....	318,559.28
	\$196,785.27

EXPENSE INCURRED IN YEAR ENDED NOVEMBER 30, 1918.

GENERAL FUND.

(Schedule H.)

DEPARTMENT.		DEPARTMENT.	
Administration of Trust Funds,..... (Schedule 1)	\$425.00	Forward,.....	\$1,371,291.56
Assessors,..... (Schedule 2)	24,966.34	Old Toll Bridge Repairs,..... (Schedule 24)	11,142.55
Building Commissioner,..... (Schedule 3)	20,504.08	Police Department,..... (Schedule 25)	284,750.57
Cemeteries,..... (Schedule 4)	3,200.00	Premium on Bonds,..... (Schedule 26)	4,636.37
Charities,..... (Schedule 5)	108,823.17	Printing, Committee on,..... (Schedule 27)	4,132.07
City Auditor,..... (Schedule 6)	11,633.93	Public Buildings, Department of,..... (Schedule 28)	325,439.51
City Clerk,..... (Schedule 7)	11,538.17	Public Library,..... (Schedule 29)	85,838.55
City Collector,..... (Schedule 8)	29,453.38	Public Parks,..... (Schedule 30)	120,731.05
City Council,..... (Schedule 9)	3,489.34	Public Safety, Committee on,..... (Schedule 31)	29,192.07
City Planning Commission,..... (Schedule 10)	12,007.54	Public Works, Board of,..... (Schedule 32)	1,774.89
City Treasurer,..... (Schedule 11)	2,457.72	Refunds,..... (Schedule 33)	40,838.50
Damages to Persons and Property,..... (Schedule 12)	325,026.12	Registrars of Voters,..... (Schedule 34)	17,482.44
Fire Department,..... (Schedule 13)	78,213.12	Revenues Receivable, Abatement of,..... (Schedule 35)	21,505.41
Fish Warden,..... (Schedule 14)	25.00	Schools,..... (Schedule 36)	985,033.98
Forest Warden,..... (Schedule 15)	54.70	Smoke Inspector,..... (Schedule 37)	275.25
Health Department,..... (Schedule 16)	73,213.12	Soldiers' and Sailors' Benefits,..... (Schedule 38)	19,042.25
Land Damages,..... (Schedule 17)	490.00	Soldiers' and Sailors' Graves,..... (Schedule 39)	794.96
Law Department,..... (Schedule 18)	7,881.43	Streets and Engineering,..... (Schedule 40)	881,547.90
License Commissioners,..... (Schedule 19)	600.40	Taxes:.....	
Mayor,..... (Schedule 20)	8,157.38	County Tax,.....	183,336.40
Military Relief Commission,..... (Schedule 21)	32,500.00	National Bank Tax,.....	18,817.60
Municipal Debt:.....		State Tax,.....	409,750.00
City Debt Serials,.....	316,700.00	Tax Exemptions, Soldiers' and Sailors',..... (Schedule 42)	903.50
City Sinking Funds,.....	43,000.00	United States Army Training School,..... (Schedule 43)	51,293.21
Interest, City Debt,.....	293,015.75	Weights and Measures, Sealer of,..... (Schedule 44)	5,106.27
Interest, Trust Funds,.....	755.81	Wires, Inspection of,..... (Schedule 45)	2,118.57
Interest, Temporary Loans,.....	39,972.16	Workmen's Compensation,..... (Schedule 46)	1,993.97
Municipal Market Committee,..... (Schedule 23)	5,797.24		
Forward,.....	\$1,371,291.56		\$4,885,794.37

DEPARTMENTAL EXPENSE SCHEDULES.

(Supporting Schedule H.)

ADMINISTRATION OF TRUST FUNDS (Schedule 1).

Administration.		
Salary of Treasurer,.....	\$300.00	
Salary of Clerk,.....	100.00	
Box Rent,.....	25.00	
		<u>\$425.00</u>

ASSESSORS (Schedule 2).

Administration.		
Salaries of Assessors and Assistant Assessors,...	\$9,549.32	
Salaries and Wages, Other Employees,.....	11,594.16	
Stationery and Office Supplies,.....	205.56	
Printing, Binding, etc.,.....	2,805.66	
Advertising,.....	48.38	
Communication Service,.....	518.22	
Transportation Service,.....	187.17	
Corporation and Special Work,.....	62.87	
		<u>\$24,966.34</u>

BUILDING COMMISSIONER (Schedule 3).

Administration.		
Salaries, Building Commissioner, and Board of		
Appeal,.....	\$3,566.61	
Salaries and Wages, Other Employees,.....	957.33	
Stationery and Office Supplies,.....	28.62	
Printing, Binding, etc.,.....	138.11	
Communication Service,.....	45.00	
Transportation Service,.....	199.15	
Miscellaneous Supplies and Expenses,.....	64.69	
Traveling Expenses,.....	89.13	
		<u>\$5,088.64</u>
Operation.		
Salaries of Inspectors,.....	\$14,296.19	
Automobile Service.		
Operating Supplies,.....	\$456.67	
Repairs and Replacements,.....	609.33	
Other Expenses,.....	40.00	
		<u>1,106.00</u>
Supplies, Not Otherwise Provided for,.....	13.25	
		<u>15,415.44</u>
		<u>\$20,504.08</u>

CELEBRATIONS (Schedule 4).

Independence Day Observances,.....	\$2,000.00	
Memorial Day Observances,.....	900.00	
Christmas Observances,.....	300.00	
		<u>\$3,200.00</u>

CHARITIES (Schedule 5).**General Administration.**

Salaries, Agent and Physician,.....	\$4,883.34	
Salaries and Wages, Other Employees,.....	4,811.18	
Stationery and Office Supplies,.....	53.70	
Printing, Binding, etc.,.....	138.07	
Communication Service,.....	141.08	
Transportation Service,.....	137.08	
Miscellaneous Supplies and Expenses,.....	19.40	
		\$9,182.81

Alms-house.**Administration.**

Salaries,.....	\$2,179.16	
Stationery and Office Supplies,.....	61.08	
Advertising, Subscriptions, etc.,.....	13.04	
Communication Service,.....	36.45	
Transportation Service,.....	34.55	
Miscellaneous Supplies and Expenses,.....	128.56	
Light,.....	126.79	
Medical Attendance,.....	88.00	
		\$2,667.63

Operation.**Care of Inmates.**

Salaries, Nurses and Attendants,.....	\$12,861.59	
Medical Supplies,.....	2,269.26	
Clothing, Dry Goods, etc.,.....	1,723.23	
Provisions,.....	10,214.45	
Cleaning, Toilet and Janitor Supplies,.....	763.23	
Supplies,.....	502.76	
		28,339.52

Farm and Dairy.

Supplies,.....	\$2,242.10	
Materials,.....	519.35	
Care of Animals,.....	814.15	
Fuel,.....	13,734.00	
Mechanical and Electrical Supplies,.....	261.19	
		17,070.79

Maintenance and Repairs.**Equipment.**

Farm and Dairy,.....	\$308.72	
Furniture and Household,.....	373.06	
Heating, Lighting and Plumbing,.....	711.39	
Buildings,.....	824.39	
		1,717.56

Replacements.**Equipment.**

Farm and Dairy,.....	\$367.42	
Furniture and Household,.....	150.85	
		518.27

50,312.77

Forward,.....\$59,497.53

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Forward,.....		\$59,497.58
Division of Relief.		
Care of Persons in Institutions,.....	\$5,869.27	
Contributions to Persons,.....	15,626.82	
Payments to Cities and Towns,.....	2,087.05	
Transportation,.....	656.40	
Burials,.....	520.00.	
Moving Household Furniture,.....	109.44	
Supplies Furnished.		
Fuel,.....	\$2,671.94	
Provisions,.....	16,894.90	
Clothing,.....	1,424.94	
Medicines,.....	1,251.18	
Other Supplies,.....	58.62	
	<u>22,301.58</u>	
		47,170.56
Wayfarers' Lodge.		
Operation.		
Salaries and Wages,.....	\$1,449.79	
Supplies,.....	4,098.79	
	<u>\$5,548.58</u>	
Maintenance and Repairs.		
Equipment,.....	282.57	
	<u>5,831.15</u>	
Total Expense,.....		\$112,499.29
Less Transfers and Refunds,.....		3,976.18
		<u>\$108,523.17</u>

CITY AUDITOR (Schedule 6).

Administration.		
Salary of City Auditor,.....	\$3,138.82	
Salaries and Wages, Other Employees,.....	7,495.47	
Stationery and Office Supplies,.....	191.85	
Printing, Binding, etc.,.....	480.22	
Communication Service,.....	59.20	
Transportation Service,.....	51.99	
Other Miscellaneous Expenses and Supplies,...	121.48	
	<u>\$11,583.58</u>	

CITY CLERK (Schedule 7).

Administration.		
Salary of City Clerk,.....	\$3,066.64	
Salaries and Wages, Other Employees,.....	5,995.71	
Stationery and Office Supplies,.....	56.06	
Printing, Binding, etc.,.....	347.48	
Advertising,.....	68.78	
Communication Service,.....	101.62	
Other Miscellaneous Expenses and Supplies,...	97.63	
Preparation of Vital Statistics,.....	1,594.25	
	<u>\$11,328.17</u>	

CITY COLLECTOR (Schedule 8).

Administration.	
Salary of City Collector,.....	\$3,266.60
Salaries and Wages, Other Employees,.....	11,625.15
Stationery and Office Supplies,.....	268.86
Printing, Binding, etc.,.....	468.99
Advertising,.....	83.20
Communication Service,.....	3,962.16
Transportation Service,.....	80.42
Fees, Commissions and Premiums,.....	8.45
Other Miscellaneous Expenses and Supplies,...	757.05
	\$20,520.88

CITY COUNCIL (Schedule 9).

Administration.	
Salaries and Wages,.....	\$1,883.20
Stationery and Office Supplies,.....	24.64
Printing, Binding, etc.,.....	188.94
Advertising,.....	426.78
Communication Service,.....	41.20
Transportation Service,.....	49.02
Other Miscellaneous Expenses and Supplies,...	184.84
"Berry Investigation,".....	690.72
	\$3,489.34

CITY PLANNING COMMISSION (Schedule 10).

Administration.	
Printing, Binding, etc.,.....	\$14.00

CITY TREASURER (Schedule 11).

Administration.	
Salary of City Treasurer,.....	\$3,566.62
Salaries and Wages, Other Employees,.....	7,124.87
Stationery and Office Supplies,.....	196.06
Printing, Binding, etc.,.....	204.39
Communication Service,.....	229.53
Transportation Service,.....	1.16
Fees, Commissions and Premiums,.....	519.00
Other Miscellaneous Expenses and Supplies,...	97.10
Traveling Expenses,.....	68.81
	\$12,007.54

DAMAGES TO PERSONS AND PROPERTY (Schedule 12).

Personal,.....	\$2,375.00
Property,.....	282.76
	\$2,657.76

FIRE DEPARTMENT (Schedule 13).**General Administration.**

Salaries, Chief, Deputy Chief and District Chiefs,.....	\$9,600.00	
Salaries and Wages, Other Employees,.....	1,948.45	
Stationery and Office Supplies,.....	62.16	
Printing, Binding, etc.,.....	97.62	
Communication Service,.....	6.59	
Transportation Service,.....	61.04	
Pensions,.....	4,272.07	
		\$16,047.93

Fire Protection.**Station No. 1, Court Street.**

Salaries,.....	\$26,472.81	
Supplies,.....	7.62	
Laundry,.....	90.08	
Light,.....	211.48	
Heat,.....	1,809.96	
Replacements,.....	8.00	
Miscellaneous Supplies and Expenses,.....	149.04	
		\$28,748.99

Station No. 2, North Street.

Salaries,.....	\$16,453.49	
Supplies,.....	87.98	
Laundry,.....	69.05	
Light,.....	210.79	
Heat,.....	1,754.01	
		18,525.32

Station No. 3, Oakland Street.

Salaries,.....	\$22,631.17	
Supplies,.....	6.44	
Laundry,.....	72.30	
Light,.....	74.90	
Heat,.....	696.86	
		23,481.67

Station No. 4, Walnut Street.

Salaries,.....	\$23,480.81	
Supplies,.....	23.44	
Laundry,.....	93.23	
Light,.....	53.18	
Heat,.....	1,189.73	
Replacements,.....	2.11	
		24,842.45

Station No. 5, Indian Orchard.

Salaries,.....	\$20,480.15	
Supplies,.....	17.72	
Laundry,.....	70.08	
Light,.....	85.19	
Heat,.....	966.20	
Replacements,.....	10.00	
Miscellaneous Supplies and Expenses,.....	10.01	
		21,639.35

Forward,.....	\$117,237.78	\$16,047.93
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Forward.....		\$117,237.78	\$16,047.93
Station No. 6, Mill Street.			
Salaries.....	\$20,892.97		
Supplies.....	18.92		
Laundry.....	123.66		
Light.....	52.99		
Heat.....	723.99		
		21,807.53	
Station No. 7, Chestnut Street.			
Salaries.....	\$22,015.77		
Supplies.....	34.44		
Laundry.....	64.10		
Light.....	69.51		
Heat.....	915.66		
Replacements.....	9.10		
Miscellaneous Supplies and Expenses.....	2.15		
		23,110.73	
Station No. 8, Winchester Park.			
Salaries.....	\$24,478.54		
Supplies.....	27.98		
Laundry.....	77.44		
Light.....	107.84		
Heat.....	934.53		
Replacements.....	1.35		
		25,622.63	
Station No. 9, Armory[*] Street.			
Salaries.....	\$11,452.89		
Supplies.....	7.62		
Laundry.....	40.46		
Light.....	25.90		
Heat.....	609.48		
Replacements.....	5.00		
		12,141.35	
Station No. 10, North Main Street.			
Salaries.....	\$22,193.02		
Supplies.....	14.06		
Laundry.....	83.32		
Light.....	168.09		
Heat.....	594.60		
Replacements.....	550.00		
Miscellaneous Supplies and Expenses.....	48.73		
		23,656.82	
Station No. 11, Plainfield Street.			
Salaries.....	\$10,895.08		
Laundry.....	38.76		
Light.....	22.82		
Heat.....	404.41		
		11,358.07	
Station No. 12, Margaret Street.			
Salaries.....	\$9,988.57		
Supplies.....	23.44		
Laundry.....	33.13		
Forward.....	\$10,045.14	\$234,934.96	\$16,047.93

Forward.....	\$10,045.14	\$234,934.96	\$16,047.93
Light.....	27.23		
Heat.....	855.53		
Miscellaneous Supplies and Expenses.....	6.00		
			10,933.90
Station No. 13, Pine Street.			
Salaries.....	\$24,524.60		
Supplies.....	12.74		
Laundry.....	71.05		
Light.....	90.63		
Heat.....	998.89		
Replacements.....	2.50		
Miscellaneous Supplies and Expenses.....	25.66		
			25,726.07
			271,594.93
Fire Alarm Telegraph Bureau.			
Salary, Superintendent.....	\$1,500.00		
Salaries and Wages, Permanent Employees..	9,809.50		
Pensions.....	725.00		
Repairs and Replacements.....	617.44		
Operating Expense.....	17.46		
			12,169.40
Boxes, Slate Terminals, etc.....			6,178.06
Maintenance and Repairs.			
Apparatus.			
Station No. 1, Court Street.....	\$1,541.78		
Station No. 2, North Street.....	1,318.53		
Station No. 3, Oakland Street.....	21.75		
Station No. 4, Walnut Street.....	884.35		
Station No. 5, Indian Orchard.....	272.44		
Station No. 6, Mill Street.....	8.75		
Station No. 7, Chestnut Street.....	235.47		
Station No. 8, Winchester Park.....	235.19		
Station No. 9, Armory Street.....	21.39		
Station No. 10, North Main Street.....	2,111.27		
Station No. 11, Plainfield Street.....	31.00		
Station No. 12, Margaret Street.....	151.00		
Station No. 13, Pine Street.....	1,701.29		
Undistributed.....	1,804.47		
			9,833.63
Buildings and Grounds.			
Station No. 1, Court Street.....	\$257.74		
Station No. 2, North Street.....	465.12		
Station No. 3, Oakland Street.....	27.82		
Station No. 4, Walnut Street.....	144.55		
Station No. 5, Indian Orchard.....	306.45		
Station No. 6, Mill Street.....	178.92		
Station No. 7, Chestnut Street.....	133.50		
Station No. 8, Winchester Park.....	68.85		
Station No. 9, Armory Street.....	537.75		
Station No. 10, North Main Street.....	151.74		
Station No. 11, Plainfield Street.....	1,440.23		
Forward.....	\$3,712.72	\$315,824.60	

Forward.....	\$3,712.72	\$315,824.60
Station No. 12, Margaret Street.....	133.86	
Station No. 13, Pine Street.....	190.99	
Undistributed.....	1,123.65	
		5,166.22
Undistributed.		
Supplies.....	\$123.40	
Telephone.....	754.55	
Clothing.....	518.28	
Replacements.....	3,507.26	
Miscellaneous Supplies and Expenses.....	126.81	
		5,035.30
		\$326,026.12
FISH WARDEN (Schedule 14).		
Salary of Fish Warden.....		\$25.00
FOREST WARDEN (Schedule 15).		
Salary.....		\$56.70
HEALTH DEPARTMENT (Schedule 16).		
Division of Inspection.		
Administration.		
Salary, Agent.....	\$2,066.60	
Salaries and Wages, Other Employees.....	3,304.12	
Stationery and Office Supplies.....	120.94	
Printing, Binding, etc.....	276.31	
Communication Service.....	250.24	
Transportation Service.....	17.64	
Traveling Expenses.....	69.90	
Miscellaneous Supplies and Expenses.....	116.32	
		\$6,121.57
Operation.		
Sanitary Inspection.		
Salaries, Inspectors.....	\$3,259.46	
Other Expenses.....	348.70	
		3,608.16
Medical Inspection of School Children.		
Salaries, Inspectors and Nurses.....	\$9,581.22	
Supplies.....	92.39	
Other Expenses.....	336.52	
		10,010.63
Milk and Dairy Inspection.		
Salaries, Inspectors.....	\$3,166.60	
Other Expenses.....	733.84	
		3,900.44
Food Inspection.		
Salaries, Inspectors.....	1,500.00	
Forward.....		\$30,140.80

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Forward.....		\$30,140.80	
Laboratory Service.			
Salaries and Wages.....	\$2,133.32		
Laboratory Supplies.....	110.35		
Other Expenses.....	1,063.60		
			3,307.27
Operating Supplies Not Chargeable Elsewhere.			
Disinfectants.....	\$218.42		
Other Supplies.....	1.80		
			220.22
Tuberculosis Dispensary.			
Salaries.....	\$933.32		
Supplies.....	40.08		
Other Expenses.....	712.40		
			1,685.75
Dental Clinic.			
Salaries.....	\$939.23		
Supplies.....	103.66		
Other Expenses.....	421.89		
			1,469.78
Division of Hospitals.			36,823.32
Administration.			
Salary, Matron.....	\$999.96		
Stationery and Office Supplies.....	35.30		
Printing, Binding, etc.....	63.38		
Communication Service.....	24.15		
Transportation Service.....	379.78		
Heat, Light and Power.....	3,320.54		
Other Miscellaneous Supplies and Expenses..	22.00		
			4,845.11
Operation.			
Professional Care of Patients.			
Salaries and Wages.....	\$9,091.49		
Medical and Surgical Supplies.....	1,928.20		
Other Expenses.....	660.85		
			11,680.54
Feeding Patients and Employees.			
Salaries and Wages.....	\$955.00		
Provisions.....	13,201.37		
			14,156.37
Housekeeping.			
Household Supplies.....	\$986.05		
Other Expenses.....	45.74		
			1,031.79
Laundry Service.			1,833.80
Supplies Not Chargeable Elsewhere.			
Fuel.....	\$458.32		
Disinfectants.....	127.88		
			586.20
Maintenance and Repairs.			
Hospital Equipment.			
Surgical and Medical.....	\$1.15		
Household.....	14.81		
Other.....	116.56		
			132.52
Forward.....		\$34,266.13	\$36,823.32

Forward.....		\$36,823.82	
Building Equipment.			
Heating System.....	\$41.85		
Lighting System.....	5.60		
Plumbing System.....	61.55		
			108.50
Buildings and Real Property.			
Buildings.....	\$212.77		
Grounds.....	18.45		
			231.22
Replacements.			
Hospital Equipment, Household.....		1,000.02	
Payments to Other Institutions.			
Payments to Hospitals.....		5,783.43	
			41,389.20
			\$78,213.12
LAND DAMAGES (Schedule 17).....			\$490.00
LAW DEPARTMENT (Schedule 18).			
Administration.			
Salary of City Solicitor.....	\$3,499.92		
Salary of Assistant City Solicitor.....	1,266.65		
Salaries and Wages, Other Employees.....	946.64		
Stationery and Office Supplies.....	129.55		
Printing, Binding, etc.....	135.56		
Communication Service.....	137.32		
Transportation Service.....	223.80		
Fees, Commissions and Premiums.....	1,147.11		
Miscellaneous Supplies and Expenses.....	346.38		
Vacations and Other Lost Time.....	43.50		
			\$7,881.43
LACERIES COMMISSIONERS (Schedule 19).			
Administration.			
Salaries and Wages, Chairman and Clerk.....	\$400.00		
Printing, Binding, etc.....	100.40		
			\$500.40
MAYOR (Schedule 20).			
Administration.			
Salary of Mayor.....	\$4,000.00		
Salaries and Wages, Other Employees.....	1,233.32		
Stationery and Office Supplies.....	25.41		
Printing, Binding, etc.....	104.46		
Communication Service.....	106.58		
Entertainments.....	295.50		
Traveling Expenses.....	111.70		
Repairs and Replacements to Equipment.....	87.08		
Other Miscellaneous Supplies and Expenses....	48.05		
Vacations and Other Lost Time.....	30.00		
			\$6,042.10
Forward.....			\$6,042.10

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Forward,.....		\$6,042.10
Operation.		
Automobile Service.		
Salary, Chauffeur,.....	\$1,233.26	
Operating Supplies,.....	520.21	
Repairs and Replacements,.....	392.36	
		<u>2,145.83</u>
		\$8,187.93
MILITARY RELIEF COMMISSION (Schedule 21).		
Miscellaneous Supplies and Expenses,.....		\$82,500.00
MUNICIPAL DEBT (Schedule 22).		
Principal.		
City Debt Serials,.....		\$316,700.00
Interest.		
City Debt,.....	\$298,015.75	
Temporary Loans,.....	38,972.16	
Trust Funds,.....	755.81	
		<u>382,743.72</u>
Sinking Fund.		
City Debt,.....		48,000.00
		<u>\$692,443.72</u>
MUNICIPAL MARKET COMMITTEE (Schedule 23).		
Salaries.		
Market Master,.....	\$536.00	
Produce Man,.....	900.00	
Labor at Indian Orchard Market,.....	88.10	
		<u>\$1,519.10</u>
Advertising,.....		155.32
Rents,.....		2,995.00
Baskets, Bags, etc. (sold),.....		833.18
Miscellaneous Operating Expenses,.....		289.64
		<u>\$5,797.24</u>
OLD TOLL BRIDGE REPAIRS (Schedule 24).		
Labor and Material,.....	\$11,140.05	
Miscellaneous Expense,.....	2.50	
		<u>\$11,142.55</u>

POLICE DEPARTMENT (Schedule No. 25).**Administration.**

Administration Salaries,.....	\$14,608.38	
Stationery and Office Supplies,.....	492.54	
Printing, Binding, etc.,.....	992.10	
Advertising,.....	61.51	
Communication Service,.....	1,776.05	
Transportation Service,.....	1,726.42	
Fees, Commissions and Premiums,.....	417.44	
Other Miscellaneous Expenses and Supplies,...	1,865.04	
Traveling Expenses, Outside City,.....	670.33	
Heat, Light and Power,.....	3,788.46	
Rents and Privileges,.....	8.00	
Pensions,.....	10,089.52	
		\$36,440.79

Operation.**Policing the City.**

Salaries, Officers and Patrolmen,.....	\$184,811.79	
Regulation of Traffic.		
Salaries,.....	18,489.54	
		\$202,801.33

Detection of Crime.

Salaries,.....	\$17,377.37	
Bertillon Supplies,.....	64.49	
		17,441.86

Police Patrol Service.

Expenses,.....	\$421.80	
Operating Supplies,.....	6,218.01	
Repairs and Replacements,.....	805.42	
		7,439.73

Police Court.

Salary, Prosecuting Attorney,.....	\$1,263.34	
Salary, Officer Detailed,.....	1,345.89	
		2,609.23

Detention and Care of Prisoners.

Salaries and Wages,.....	\$17,628.56	
Provisions,.....	1,108.40	
Other Supplies,.....	28.20	
		18,760.16

Police Signal System.

Supplies,.....	\$370.21	
Repairs and Replacements,.....	188.32	
Other Expenses,.....	660.00	
		1,168.53

Supplies Used Generally.

Mechanics and Engineers,.....	\$1.54	
Cleaning, Toilet, Janitors,.....	966.98	
Wearing Apparel,.....	778.25	
Uniform Cloth,.....	1,008.03	
Ammunition,.....	62.00	
Medical,.....	111.07	
Fuel,.....	258.80	
Batteries and Lights,.....	351.76	
		3,533.43

Forward,.....	\$253,754.27	\$36,440.79
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Forward, ...	\$253,754.27	\$36,440.79
Maintenance and Repairs.		
Bicycles and Accessories, ...	\$339.15	
Small and Side Arms, ...	1.90	
Office Furniture and Equipment, ...	118.16	
Bertillon Equipment, ...	71.00	
Other, ...	18.75	
		543.96
Buildings and Grounds.		
Central Station, ...		914.65
Replacements.		
Motor Vehicles, ...	\$2,302.69	
Bicycles and Accessories, ...	84.75	
Office Equipment, ...	331.46	
Other, ...	378.00	
		3,096.90
		253,809.78
		\$294,750.57
PREMIUM ON BONDS (Schedule 26).		
Miscellaneous Expenses, ...		\$1,636.34
PRINTING, COMMITTEE ON (Schedule 27).		
Administration.		
Salaries and Wages, ...	\$600.00	
Stationery and Office Supplies, ...	75.79	
Printing, Binding, etc., ...	3,147.80	
Transportation, ...	24.01	
Miscellaneous Supplies and Expenses, ...	274.47	
		\$4,122.07
PUBLIC BUILDINGS, DEPARTMENT OF (Schedule 28).		
General Administration.		
Salary, Schoolhouse Agent, ...	\$2,754.05	
Salaries and Wages, Other Employees, ...	2,937.02	
Stationery and Office Supplies, ...	51.43	
Printing, Binding, etc., ...	80.38	
Advertising, ...	23.66	
Communication Service, ...	117.24	
		\$5,963.78
Operation.		
Transportation Service, ...	\$233.08	
Fees, Commissions and Premiums, ...	202.34	
Salaries, Chauffeurs, Vehicles, ...	1,259.53	
Operating Supplies, Vehicles, ...	665.47	
Other Expense, ...	130.14	
Pensions, ...	433.62	
		2,924.18
Maintenance.		
Transportation Service, ...	\$155.77	
Vacations and Other Lost Time, ...	387.96	
		543.73
Forward, ...		\$9,431.69

Forward,.....		\$9,431.69	
Schoolhouse Property.			
Acushnet Avenue.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$1,523.71		
Fuel, Light and Power,.....	1,187.94		
Janitors' Supplies,.....	16.95		
Miscellaneous Supplies and Expenses,.....	54.43		
		\$2,783.03	
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$22.70		
Electrical Equipment,.....	63.78		
Heating, Plumbing and Ventilating,.....	567.75		
Mason Work, Buildings and Grounds,.....	383.77		
		1,038.00	
Algen Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$903.40		
Fuel, Light and Power,.....	561.94		
Janitors' Supplies,.....	2.55		
Miscellaneous Supplies and Expenses,.....	12.90		
		1,480.79	
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$4.20		
Electrical Equipment,.....	19.59		
Heating, Plumbing and Ventilating,.....	149.13		
Mason Work, Buildings and Grounds,.....	75.54		
		248.46	
Armory Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$2,425.31		
Fuel, Light and Power,.....	2,301.61		
Janitors' Supplies,.....	35.88		
Miscellaneous Supplies and Expenses,.....	189.86		
		4,952.66	
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$132.07		
Electrical Equipment,.....	36.13		
Heating, Plumbing and Ventilating,.....	2,096.54		
Mason Work, Buildings and Grounds,.....	502.23		
		2,767.02	
Barrows.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$1,357.36		
Fuel, Light and Power,.....	1,144.72		
Janitors' Supplies,.....	16.67		
Miscellaneous Supplies and Expenses,.....	22.40		
		2,541.15	
Forward,.....	\$15,811.11	\$9,431.69	

Forward.....	\$15,811.11	\$9,431.69
Maintenance and Repairs.		
Furniture and Fixtures.....	\$89.84	
Electrical Equipment.....	20.65	
Heating, Plumbing and Ventilating.....	804.60	
Mason Work, Buildings and Grounds.....	402.70	
		817.79
Boston Road.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$900.61	
Fuel, Light and Power.....	625.90	
Janitors' Supplies.....	4.02	
Miscellaneous Supplies and Expenses.....	1.64	
		1,532.17
Maintenance and Repairs.		
Furniture and Fixtures.....	\$26.27	
Electrical Equipment.....	5.58	
Heating, Plumbing and Ventilating.....	369.28	
Mason Work, Buildings and Grounds.....	180.85	
		581.43
Brightwood.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,986.78	
Fuel, Light and Power.....	2,757.62	
Janitors' Supplies.....	12.57	
Miscellaneous Supplies and Expenses.....	86.94	
		4,793.86
Maintenance and Repairs.		
Furniture and Fixtures.....	\$293.70	
Electrical Equipment.....	82.39	
Heating, Plumbing, and Ventilating.....	847.79	
Mason Work, Buildings and Grounds.....	304.38	
		1,528.21
Buckingham.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$3,334.80	
Fuel, Light and Power.....	4,821.47	
Janitors' Supplies.....	84.10	
Miscellaneous Supplies and Expenses.....	185.27	
		7,875.64
Maintenance and Repairs.		
Furniture and Fixtures.....	\$144.96	
Electrical Equipment.....	141.99	
Heating, Plumbing and Ventilating.....	783.72	
Mason Work, Buildings and Grounds.....	541.90	
		1,612.57
Forward.....		
	\$34,552.83	\$9,431.69

Forward,.....		\$34,552.83	\$9,431.69
Carew Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$1,592.55		
Fuel, Light and Power,.....	977.27		
Janitors' Supplies,.....	21.79		
Miscellaneous Supplies and Expenses,.....	51.53		
			2,643.14
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$63.36		
Electrical Equipment,.....	42.88		
Heating, Plumbing and Ventilating,.....	154.83		
Mason Work, Buildings and Grounds,.....	1,109.84		
			1,369.86
Central Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$2,287.10		
Fuel, Light and Power,.....	2,620.17		
Janitors' Supplies,.....	18.47		
Miscellaneous Supplies and Expenses,.....	101.85		
			5,027.59
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$31.02		
Electrical Equipment,.....	27.47		
Heating, Plumbing and Ventilating,.....	474.66		
Mason Work, Buildings and Grounds,.....	241.78		
			774.93
374 Central Street.			
Care and Operation.			
Fuel, Light and Power,.....			139.42
Maintenance and Repairs.			
Electrical Equipment,.....	\$3.65		
Heating, Plumbing and Ventilating,.....	77.00		
Mason Work, Buildings and Grounds,.....	20.57		
			101.22
Charles Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$886.00		
Fuel, Light and Power,.....	561.64		
Janitors' Supplies,.....	14.31		
Miscellaneous Supplies and Expenses,.....	24.88		
			1,486.83
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$29.61		
Electrical Equipment,.....	53.19		
Heating, Plumbing and Ventilating,.....	334.42		
Mason Work, Buildings and Grounds,.....	64.86		
			482.08
Forward,.....		\$46,577.90	\$9,431.69

Forward.....	\$46,577.90	\$9,431.69
Chestnut Street.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$5,764.31	
Fuel, Light and Power.....	7,750.56	
Janitors' Supplies.....	88.87	
Miscellaneous Supplies and Expenses.....	154.14	
		13,757.88
Maintenance and Repairs.		
Furniture and Fixtures.....	\$88.80	
Electrical Equipment.....	201.96	
Heating, Plumbing and Ventilating.....	1,082.16	
Mason Work, Buildings and Grounds.....	861.58	
		2,234.50
Dry Bridge.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$512.15	
Fuel, Light and Power.....	78.74	
Janitors' Supplies.....	2.76	
Miscellaneous Supplies and Expenses.....	50.30	
		643.95
Maintenance and Repairs.		
Heating, Plumbing and Ventilating.....	\$59.64	
Mason Work, Buildings and Grounds.....	49.82	
		109.46
Eastern Avenue.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,171.92	
Fuel, Light and Power.....	1,203.63	
Janitors' Supplies.....	23.07	
Miscellaneous Supplies and Expenses.....	55.91	
		2,454.53
Maintenance and Repairs.		
Furniture and Fixtures.....	\$35.53	
Electrical Equipment.....	15.27	
Heating, Plumbing and Ventilating.....	232.71	
Mason Work, Buildings and Grounds.....	102.19	
		385.70
East Union Street.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,280.87	
Fuel, Light and Power.....	700.96	
Janitors' Supplies.....	21.99	
Miscellaneous Supplies and Expenses.....	9.31	
		2,013.13
Forward.....	\$68,177.05	\$9,431.69

Forward,.....		\$63,177.05	\$9,431.69
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$15.69		
Electrical Equipment,.....	48.11		
Heating, Plumbing and Ventilating,.....	286.85		
Mason Work, Buildings and Grounds,.....	180.00		
			530.65
Emery Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers,			
and Firemen,.....	\$1,509.11		
Fuel, Light and Power,.....	1,002.03		
Janitors' Supplies,.....	69.73		
Miscellaneous Supplies and Expenses,.....	14.92		
			2,595.79
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$13.55		
Electrical Equipment,.....	55.99		
Heating, Plumbing and Ventilating,.....	105.76		
Mason Work, Buildings and Grounds,.....	422.18		
Other Expenses,.....	75.50		
			672.93
Five Mile Pond.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers,			
and Firemen,.....	\$348.50		
Fuel, Light and Power,.....	35.00		
Janitors' Supplies,.....	3.40		
Miscellaneous Supplies and Expenses,.....	.20		
			487.10
Maintenance and Repairs.			
Electrical Equipment,.....	\$4.36		
Heating, Plumbing and Ventilating,.....	25.18		
Mason Work, Buildings and Grounds,.....	23.35		
			57.89
Forest Park.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers,			
and Firemen,.....	\$2,820.96		
Fuel, Light and Power,.....	2,608.72		
Janitors' Supplies,.....	35.33		
Miscellaneous Supplies and Expenses,.....	180.83		
			5,690.84
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$197.85		
Electrical Equipment,.....	245.37		
Heating, Plumbing and Ventilating,.....	375.10		
Mason Work, Buildings and Grounds,.....	554.04		
			1,371.36
Forward,.....		\$79,584.11	\$9,431.69

Forward.....	\$79,584.11	\$9,481.69
Glenwood.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$886.00	
Fuel, Light and Power,.....	380.28	
Janitors' Supplies,.....	19.96	
Miscellaneous Supplies and Expenses,.....	37.83	
		1,323.67
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$4.20	
Electrical Equipment,.....	6.61	
Heating, Plumbing and Ventilating,.....	259.79	
Mason Work, Buildings and Grounds,.....	58.88	
		329.48
Central High.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$6,921.70	
Fuel, Light and Power,.....	8,940.92	
Janitors' Supplies,.....	158.19	
Miscellaneous Supplies and Expenses,.....	145.15	
Taxes and Water Rents,.....	81.79	
		16,197.75
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$96.68	
Electrical Equipment,.....	351.60	
Heating, Plumbing and Ventilating,.....	657.88	
Miscellaneous Supplies and Expenses,.....	630.22	
		1,735.83
High School of Commerce.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$17,322.19	
Fuel, Light and Power,.....	17,481.28	
Janitors' Supplies,.....	219.56	
Miscellaneous Supplies and Expenses,.....	242.82	
Taxes and Water Rents,.....	115.56	
		35,380.91
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$89.48	
Electrical Equipment,.....	112.74	
Heating, Plumbing and Ventilating,.....	407.15	
Mason Work, Buildings and Grounds,.....	382.24	
		941.56
Technical High School.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$3,295.06	
Fuel, Light and Power,.....	11,866.62	
Janitors' Supplies,.....	302.14	
Taxes and Water Rents,.....	49.85	
Miscellaneous Supplies and Expenses,.....	189.25	
		20,202.42
Forward.....	\$155,646.63	\$9,481.69

Forward,.....		\$155,645.63	\$9,431.00
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$89.43		
Electrical Equipment,.....	466.75		
Heating, Plumbing and Ventilating,.....	778.06		
Mason Work, Buildings and Grounds,.....	659.14		
			1,993.38
Homer Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$1,735.15		
Fuel, Light and Power,.....	2,230.58		
Janitors' Supplies,.....	19.81		
Miscellaneous Supplies and Expenses,.....	78.90		
			4,064.44
Maintenance and Repairs.			
Portable Schoolhouse,.....	\$934.11		
Furniture and Fixtures,.....	31.30		
Electrical Equipment,.....	66.70		
Heating, Plumbing and Ventilating,.....	322.48		
Mason Work, Buildings and Grounds,.....	285.97		
			1,640.56
Hooker.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$1,793.63		
Fuel, Light and Power,.....	920.80		
Janitors' Supplies,.....	52.44		
Miscellaneous Supplies and Expenses,.....	97.75		
			2,864.62
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$51.65		
Electrical Equipment,.....	36.52		
Heating, Plumbing and Ventilating,.....	759.87		
Mason Work, Buildings and Grounds,.....	302.26		
			1,150.30
Howard Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$2,917.47		
Fuel, Light and Power,.....	3,825.82		
Janitors' Supplies,.....	99.58		
Miscellaneous Supplies and Expenses,.....	58.30		
			6,400.67
Maintenance and Repairs.			
Furniture and Fixtures,.....	\$240.60		
Electrical Equipment,.....	322.83		
Heating, Plumbing and Ventilating,.....	360.50		
Mason Work, Buildings and Grounds,.....	613.08		
			1,537.01
Forward,.....		\$175,296.61	\$9,431.00

Forward.....	\$175,296.61	\$9,481.69
Indian Orchard Grammar.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$2,916.42	
Fuel, Light and Power.....	3,689.07	
Janitors' Supplies.....	52.81	
Miscellaneous Supplies and Expenses.....	55.05	
		6,713.35
Maintenance and Repairs.		
Furniture and Fixtures.....	\$50.16	
Electrical Equipment.....	91.87	
Heating, Plumbing and Ventilating.....	638.49	
Mason Work, Buildings and Grounds.....	176.65	
		957.17
Indian Orchard Primary.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,061.08	
Fuel, Light and Power.....	595.76	
Janitors' Supplies.....	22.44	
Miscellaneous Supplies and Expenses.....	23.17	
		1,702.45
Maintenance and Repairs.		
Furniture and Fixtures.....	\$4.65	
Electrical Equipment.....	25.14	
Heating, Plumbing and Ventilating.....	591.58	
Mason Work, Buildings and Grounds.....	247.48	
		868.85
Jefferson Avenue.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,367.25	
Fuel, Light and Power.....	696.41	
Janitors' Supplies.....	44.50	
Miscellaneous Supplies and Expenses.....	54.67	
		2,162.83
Maintenance and Repairs.		
Furniture and Fixtures.....	\$10.80	
Electrical Equipment.....	27.86	
Heating, Plumbing and Ventilating.....	203.21	
Mason Work, Buildings and Grounds.....	242.32	
		484.19
Kensington Avenue.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,709.50	
Fuel, Light and Power.....	2,850.18	
Janitors' Supplies.....	51.70	
Miscellaneous Supplies and Expenses.....	122.51	
		4,733.89
Forward.....	\$192,919.34	\$9,481.69

Forward,.....	\$192,919.34	\$9,431.69
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$33.00	
Electrical Equipment,.....	67.99	
Heating, Plumbing and Ventilating,.....	421.12	
Mason Work, Buildings and Grounds,.....	299.25	
		821.86
Lincoln.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$1,614.40	
Fuel, Light and Power,.....	1,265.32	
Janitors' Supplies,.....	53.28	
Miscellaneous Supplies and Expenses,.....	179.91	
		3,112.91
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$85.16	
Electrical Equipment,.....	123.79	
Heating, Plumbing and Ventilating,.....	148.90	
Mason Work, Buildings and Grounds,.....	165.97	
		523.82
School Street.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$343.60	
Fuel, Light and Power,.....	598.57	
Janitors' Supplies,.....	20.73	
Miscellaneous Supplies and Expenses,.....	55.97	
		1,528.87
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$37.32	
Electrical Equipment,.....	16.65	
Heating, Plumbing and Ventilating,.....	302.46	
Mason Work, Buildings and Grounds,.....	59.81	
		416.24
Sixteen Acres.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$509.75	
Fuel, Light and Power,.....	35.10	
Janitors' Supplies,.....	13.46	
Miscellaneous Supplies and Expenses,.....	.20	
		608.51
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$14.65	
Heating, Plumbing and Ventilating,.....	30.28	
Mason Work, Buildings and Grounds,.....	96.15	
		141.08
Forward,.....	\$200,072.13	\$9,431.69

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Forward.....		\$200,072.13	\$9,481.69
State Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,681.10		
Fuel, Light and Power.....	4,546.67		
Janitors' Supplies.....	24.59		
Miscellaneous Supplies and Expenses.....	94.53		
			6,346.89
Maintenance and Repairs.			
Furniture and Fixtures.....	\$68.47		
Electrical Equipment.....	136.81		
Heating, Plumbing and Ventilating.....	274.94		
Mason Work, Buildings and Grounds.....	145.54		
			625.76
Strickland.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,089.60		
Fuel, Light and Power.....	477.97		
Janitors' Supplies.....	28.12		
Miscellaneous Supplies and Expenses.....	38.00		
			1,633.69
Maintenance and Repairs.			
Furniture and Fixtures.....	\$39.77		
Electrical Equipment.....	80.98		
Heating, Plumbing and Ventilating.....	111.78		
Mason Work, Buildings and Grounds.....	96.13		
			278.66
Sumner Avenue.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,872.90		
Fuel, Light and Power.....	1,286.97		
Janitors' Supplies.....	50.40		
Miscellaneous Supplies and Expenses.....	65.53		
			2,775.80
Maintenance and Repairs.			
Furniture and Fixtures.....	\$77.85		
Electrical Equipment.....	46.70		
Heating, Plumbing and Ventilating.....	137.43		
Mason Work, Buildings and Grounds.....	124.13		
			386.11
Tapley.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,603.20		
Fuel, Light and Power.....	1,222.28		
Janitors' Supplies.....	28.88		
Miscellaneous Supplies and Expenses.....	47.93		
			2,902.29
Forward.....		\$215,021.33	\$9,481.69

Forward.....		\$215,021.33	\$9,431.69
Maintenance and Repairs.			
Furniture and Fixtures.....	\$17.98		
Electrical Equipment.....	28.54		
Heating, Plumbing and Ventilating.....	393.04		
Mason Work, Buildings and Grounds.....	274.15		
			713.71
Vocational.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,654.50		
Fuel, Light and Power.....	1,969.19		
Janitors' Supplies.....	77.92		
Miscellaneous Supplies and Expenses.....	13.09		
			3,714.70
Maintenance and Repairs.			
Furniture and Fixtures.....	\$8.47		
Electrical Equipment.....	175.49		
Heating, Plumbing and Ventilating.....	191.78		
Mason Work, Buildings and Grounds.....	428.84		
			804.58
White Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,353.85		
Fuel, Light and Power.....	872.21		
Janitors' Supplies.....	31.55		
Miscellaneous Supplies and Expenses.....	113.70		
			2,371.31
Maintenance and Repairs.			
Portable Schoolhouse.....	\$371.66		
Furniture and Fixtures.....	40.98		
Electrical Equipment.....	47.47		
Heating, Plumbing and Ventilating.....	160.99		
Mason Work, Buildings and Grounds.....	412.78		
			1,033.88
Williams Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers, and Firemen.....	\$1,382.60		
Fuel, Light and Power.....	1,593.36		
Janitors' Supplies.....	43.86		
Miscellaneous Supplies and Expenses.....	63.95		
			3,083.77
Maintenance and Repairs.			
Furniture and Fixtures.....	\$43.93		
Electrical Equipment.....	33.33		
Heating, Plumbing and Ventilating.....	461.08		
Buildings.....	374.64		
			912.98
Forward.....		\$227,656.26	\$9,431.69

Forward, ...	\$227,656.26	\$9,481.69
Worthington Street.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen, ...	\$1,632.62	
Fuel, Light and Power, ...	1,647.36	
Janitors' Supplies, ...	46.52	
Miscellaneous Supplies and Expenses, ...	84.48	
		8,410.98
Maintenance and Repairs.		
Furniture and Fixtures, ...	\$85.90	
Electrical Equipment, ...	41.14	
Heating, Plumbing and Ventilating, ...	628.39	
Mason Work, Buildings and Grounds, ...	418.48	
		1,123.86
Washington, Portable Schoolhouse.		
Care and Operation.		
Salaries and Wages, Janitor, ...	\$348.50	
Fuel, Light and Power, ...	62.21	
		410.71
Maintenance and Repairs.		
Furniture and Fixtures, ...	\$4.47	
Electrical Equipment, ...	1.24	
Heating, Plumbing and Ventilating, ...	33.87	
Mason Work, Buildings and Grounds, ...	10.28	
		49.86
Washington.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen, ...	\$380.89	
Fuel, Light and Power, ...	2,151.28	
Janitors' Supplies, ...	15.06	
		2,547.23
Maintenance and Repairs.		
Furniture and Fixtures, ...	\$90.07	
Electrical Equipment, ...	3.98	
Heating, Plumbing and Ventilating, ...	5.38	
Mason Work, Buildings and Grounds, ...	51.37	
		90.80
Rushville.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen, ...	\$563.50	
Fuel, Light and Power, ...	87.10	
Janitors' Supplies, ...	3.04	
		653.64
Maintenance and Repairs.		
Furniture and Fixtures, ...	\$8.03	
Electrical Equipment, ...	.93	
Heating, Plumbing and Ventilating, ...	78.35	
Mason Work, Buildings and Grounds, ...	86.17	
		168.48
Forward, ...		
	\$236,101.82	\$9,481.69

Forward,.....	\$236,101.82	\$9,481.80
Carlisle.		
Care and Operation.		
Miscellaneous Supplies and Expenses,.....	31.15	
Maintenance and Repairs.		
Mason Work, Buildings and Grounds,....	1.10	
47 Vernon Street.		
Care and Operation.		
Fuel, Light and Power,.....	\$92.25	
Maintenance and Operation.		
Electrical Equipment,.....	\$1.99	
Heating, Plumbing and Ventilating,.....	15.06	
Mason Work, Buildings and Grounds,....	3.45	
		20.50
Rented Property.		
Care and Operation.		
Taxes and Water Rents,.....	62.42	
Maintenance and Repairs.		
Mason Work, Buildings and Grounds,....	91.89	
Liberty.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$319.54	
Fuel, Light and Power,.....	830.19	
Janitors' Supplies,.....	7.61	
		1,157.34
Maintenance and Repairs.		
Furniture and Fixtures,.....	\$10.68	
Electrical Equipment,.....	2.91	
Mason Work, Buildings and Grounds,....	18.71	
		32.30
New Hooker.		
Care and Operation.		
Salaries and Wages, Janitors, Engineers, and Firemen,.....	\$105.56	
Fuel, Light and Power,.....	1,696.25	
		1,801.81
Maintenance and Repairs.		
Furniture and Fixtures,.....	871.10	
Unassigned.		
Maintenance and Repairs.		
Mason Work, Buildings and Grounds,....	628.08	
		250,622.96
Militia Rifle Range.		
Administration.		
Taxes and Water Rents,.....	\$181.88	
Operation.		
Salaries and Wages,.....	819.00	
Maintenance and Repairs.		
Other Expenses,.....	104.15	
		605.03
Forward,.....		\$251,227.98

Forward, ...		\$251,227.98	
Municipal Group Buildings.			
Administration Building.			
Operation.			
Salaries and Wages, Janitors and Cleaners, ..	\$19,759.40		
Communication Service, ...	\$1,812.08		
Printing, Binding, etc., ...	14.81		
Transportation Service, ...	50.44		
Fuel, Light and Power, ...	1,967.55		
Oils and Lubricants, ...	211.36		
Janitors' Supplies, ...	1,216.48		
Laundry Service, ...	1,561.16		
Miscellaneous Supplies and Expenses, ...	481.60		
		\$26,574.83	
Maintenance and Repairs.			
Furniture and Fixtures, ...	\$191.17		
Electrical Equipment, ...	515.42		
Plumbing, Heating and Ventilating, ...	509.86		
Buildings, ...	2,434.25		
		3,650.70	
			\$0,225.53
Auditorium.			
Operation.			
Salaries and Wages, Janitors, ...	\$3,935.41		
Fuel, Light and Power, ...	1,108.18		
Janitors' Supplies, ...	140.76		
Laundry Service, ...	1,386.04		
		\$6,565.39	
Maintenance and Repairs.			
Furniture and Fixtures, ...	\$31.89		
Electrical Equipment, ...	133.42		
Heating, Plumbing and Ventilating, ...	3.09		
Buildings, ...	482.06		
		650.46	
			7,215.85
Campanile.			
Operation.			
Salaries and Wages, Chime Ringer, ...	\$356.90		
Fuel, Light and Power, ...	217.36		
Miscellaneous Supplies and Expenses, ...	364.00		
		\$938.26	
Maintenance and Repairs.			
Electrical Equipment, ...	\$77.51		
Heating, Plumbing and Ventilating, ...	8.80		
Buildings, ...	15.06		
		101.37	
			1,039.63
Sanitary.			
Operation.			
Salaries and Wages, Janitors, ...	\$4,339.75		
Janitors' Supplies, ...	846.84		
Laundry Service, ...	201.13		
		\$5,387.72	
Forward, ...	\$5,387.72	\$239,708.99	

Forward,.....	\$5,887.72	\$289,708.90
Maintenance and Repairs.		
Electrical Equipment,.....	\$16.84	
Heating, Plumbing and Ventilating,.....	118.80	
Buildings,.....	39.97	
	<u>175.61</u>	5,563.33
Municipal Heating Plant.		
Administration.		
Salaries, Chief Engineer and Assistant,.....	\$3,329.93	
Salaries and Wages, Janitors, Engineers and Firemen,.....	5,474.66	
Miscellaneous Supplies and Expenses,.....	226.56	
	<u>\$9,031.15</u>	
Operation.		
Coal,.....	\$25,051.11	
Oils and Lubricants,.....	40.45	
Miscellaneous Supplies and Expenses,.....	419.38	
	<u>25,510.94</u>	
Maintenance and Repairs.		
Miscellaneous Supplies and Expenses,.....	41.83	
	<u>\$34,583.92</u>	
Less Transfers,.....	4,507.50	
	<u>80,076.42</u>	
Total,.....		\$325,348.74
Miscellaneous Expenditures.		
Material from Stores Unaccounted for,.....		80.77
Grand Total,.....		\$325,429.51

PUBLIC LIBRARY (Schedule 29).

Contributions to Libraries,.....	\$35,853.55
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PUBLIC PARKS (Schedule 30).

General Administration.		
Salary, Superintendent,.....	\$3,066.63	
Salaries and Wages, Other Employees,.....	13,531.25	
Stationery and Office Supplies,.....	21.89	
Printing, Binding, etc.,.....	73.97	
Communication Service,.....	135.79	
Heat, Light and Power,.....	206.96	
Taxes and Water Rents,.....	170.01	
Vacations and Other Lost Time,.....	1,023.02	
	<u>\$18,234.57</u>	
Forward,.....		\$18,234.57

Forward,.....		\$18,234.57
General Operation.		
Automobile Service.		
Salaries, Chauffeurs,.....	\$3,412.56	
Operating Supplies,.....	3,580.27	
Repairs and Replacements,.....	5,507.80	
Other Expenses,.....	350.16	
		\$12,850.79
Teaming and Stables.		
Wages, Stable Men and Drivers,.....	\$4,441.64	
Forage,.....	3,681.96	
Other Expenses,.....	1,080.35	
		9,153.95
Drinking Fountains.		
Wages, Laborers,.....	\$259.58	
Ice,.....	488.22	
Other Expenses,.....	67.94	
		815.74
Zoological Garden, Forest Park.		
Wages,.....	\$5,414.00	
Forage,.....	5,155.48	
Other Supplies,.....	520.42	
Other Expenses,.....	3.10	
		11,093.00
Operating, Care and Maintenance, Parks.		\$3,913.48
Forest Park.		
Buildings and Structures,.....	\$1,917.28	
Roadways and Drives,.....	7,807.98	
Lawns, Gardens and Flowers,.....	4,743.41	
Pools and Ornamental Fountains,.....	546.52	
Tennis Courts, Ball and Play Grounds,.....	2,181.36	
Other Expenses,.....	8,475.00	
		\$25,671.55
Van Horn Park.		
Roadways and Drives,.....	\$668.42	
Lawns, Gardens and Flowers,.....	1,910.32	
Other Expenses,.....	54.66	
		2,633.40
All Other Small Parks.		
Roadways and Drives,.....	\$810.46	
Lawns, Gardens and Flowers,.....	5,506.02	
Other Expenses,.....	60.26	
		6,376.74
Botanical Division.		
Wages,.....	\$5,205.52	
Supplies,.....	750.65	
Other Expenses,.....	45.35	
		6,001.52
		40,633.21
Forestry.		
Salaries and Wages,.....	\$8,571.10	
Supplies,.....	343.59	
Materials,.....	801.22	
Equipment and Tools,.....	288.35	
		10,004.26
Forward,.....		\$102,835.52

Forward,.....		\$102,885.52
Maintenance and Repairs.		
Equipment.		
Stables,.....	\$350.17	
Construction,.....	377.51	
Horticultural,.....	45.60	
Other Expenses,.....	16.72	
		790.00
Replacements.		
Equipment.		
Stables,.....	\$39.79	
Construction,.....	63.71	
Horticultural,.....	8.84	
Small Tools,.....	337.15	
		449.49
Division of Recreation and Entertainment.		
Administration.		
Salary, Director,.....	\$958.38	
Salaries and Wages, Other Employees,.....	300.00	
Communication Service,.....	92.76	
Rents and Privileges,.....	152.00	
		\$1,503.09
Operation.		
Playgrounds.		
Salaries, Directors and Assistants, ..	\$5,468.30	
Salaries, Caretakers and Janitors, ..	3,914.69	
Recreational Supplies,.....	554.41	
Other Supplies,.....	90.67	
Other Expenses,.....	1,683.85	
		\$11,711.92
Swimming Pools.		
Salaries and Wages,.....	\$2,133.40	
Supplies,.....	252.42	
Other Expenses,.....	422.49	
		2,808.31
Celebrations and Entertainments.		
Independence Day,.....	\$10.00	
Memorial Day,.....	10.00	
Other Expenses,.....	65.92	
		85.92
		14,606.15
Maintenance and Repairs.		
Equipment, Recreational,.....	\$30.40	
Equipment, Playgrounds,.....	561.86	
		591.76
Replacements.		
Equipment, Recreational,.....	\$1.50	
Equipment, Playgrounds,.....	22.06	
		23.56
		16,724.56
Total Expense,.....		\$120,799.57
Less Transfers,.....		63.52
		\$120,731.05

PUBLIC SAFETY, COMMITTEE ON (Schedule 31).**General Committee.**

Salaries and Wages,.....	\$2,951.00	
Stationery and Office Supplies,.....	51.62	
Printing Account Books, etc.,.....	309.09	
Advertising,.....	25.50	
Communication Service,.....	164.47	
Transportation Service,.....	6.32	
Traveling Expenses,.....	90.70	
Miscellaneous.		
Coal Distribution,.....	1,989.71	
Music for Drafts,.....	849.00	
Memorial Day Banner,.....	65.50	
Bastille Day,.....	91.00	
Liberty Loan Flag Raising,.....	79.50	
Sundries,.....	155.50	
		\$6,278.91

Victory Bread Shop and Food Conservation.

Salaries and Wages,.....	\$4,703.22	
Rent,.....	2,514.00	
Provisions,.....	2,182.71	
Printing,.....	328.94	
Traveling Expenses,.....	311.35	
Office Supplies,.....	148.91	
Advertising and Signs,.....	540.08	
Paper, Twine and Boxes,.....	220.44	
Fuel and Light,.....	528.89	
Telephone,.....	181.71	
Cleaning and Repairing,.....	437.01	
Laundry,.....	139.69	
Slides and Pictures,.....	102.80	
Utensils,.....	362.93	
Decorating Float, 4th of July,.....	100.00	
Transportation Service,.....	55.98	
Communication Service,.....	8.61	
Miscellaneous Expenses,.....	196.70	
		13,063.97

Food Production (Ludlow Farm).

Rent of Land,.....	\$43.58	
Potato Bags,.....	33.75	
Machinery,.....	40.12	
Labor,.....	49.37	
Traveling Expenses,.....	10.56	
Miscellaneous Supplies,.....	.66	
		183.04

Food Production (Garden Supervision).

Salaries and Wages,.....	\$1,908.48	
Fertilizer,.....	1,555.31	
Teaming,.....	509.20	

Forward,.....	\$3,967.99	\$19,525.92
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Forward.....	\$3,987.99	\$19,525.92
Traveling and Transportation.....	408.90	
Spraying and Lead.....	861.45	
Signs and Lecture Notices.....	167.45	
Communication Service.....	45.84	
Rent of Land.....	50.00	
Printing.....	42.12	
Insurance.....	23.50	
Lumber.....	20.09	
Miscellaneous Expenses.....	158.86	
		5,245.70
Committee on Boys' Service.		
Loan for Garden Work.....	\$100.00	
Communication Service.....	8.00	
Transportation Service.....	3.25	
Miscellaneous Expenses.....	5.82	
		112.07
Women's Committee.		
Salaries.....	\$768.75	
Communication Service.....	89.83	
Printing.....	33.84	
Advertising.....	63.34	
Stationery and Office Supplies.....	23.73	
Posters.....	58.75	
Banners, 4th of July, . . . @.....	27.20	
Miscellaneous Expenses.....	83.83	
		1,098.77
Committee on War History.		
Miscellaneous Supplies and Expenses.....		11.85
Miscellaneous Committees.		
British Mission.....	\$80.35	
Social Welfare of Soldiers.....	67.00	
Americanisation.....	484.27	
Community Singing.....	72.52	
Medical Hygiene and Sanitation.		
Influenza, Nurses' Salaries.....	620.47	
Picture, "Fit to Fight".....	83.86	
Health Week.....	27.15	
Belgian Week.....	16.50	
Four Minute Men.....	10.36	
Coal Committee.		
Salary.....	105.00	
Printing.....	33.55	
Victory Day.....	416.48	
Massachusetts State Guard.		
Uniforms, Ammunition, etc.....	1,253.09	
		3,270.60
		\$29,264.41
Less Refunds.....		72.34
		\$29,192.07

PUBLIC WORKS, BOARD OF (Schedule 32).**Administration.**

Salaries and Wages,.....	\$1,401.54	
Stationery and Office Supplies,.....	33.71	
Printing, Binding, etc.,.....	10.54	
Transportation Service,.....	34.30	
Fees, Commissions and Premiums,.....	110.00	
Advertising,.....	184.80	
Miscellaneous Supplies and Expenses,.....	.10	
		<u>\$1,774.89</u>

REFUNDS (Schedule 33).

Auditorium Rentals,.....	\$32.00	
Dance Licenses,.....	2.00	
Fees, Municipal Market,.....	2.00	
Garbage Sales,.....	18.71	
Liquor Licenses,.....	39,656.42	
Sewer Fees,.....	384.12	
Street Permits,.....	9.00	
Tuition, Schools,.....	694.25	
		<u>\$40,858.50</u>

REGISTRARS OF VOTERS (Schedule 34).**Administration.**

Salaries and Wages,.....	\$10,400.59	
Stationery and Office Supplies,.....	88.53	
Printing, Binding, etc.,.....	4,764.94	
Advertising,.....	288.84	
Communication Service,.....	242.53	
Transportation Service,.....	401.33	
Miscellaneous Supplies and Expenses,.....	536.15	
Rents and Privileges,.....	759.53	
		<u>\$17,482.44</u>

REVENUES RECEIVABLE, ABATEMENT OF (Schedule 35).

Reserve for Abated Bills,.....	<u>\$21,505.41</u>
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SCHOOLS (Schedule 36).**General Administration.****Salaries.**

Superintendent,.....	\$5,000.00	
Assistant Superintendent,.....	1,000.00	
Secretary of School Committee,.....	100.00	
Chief Clerk,.....	2,500.00	
Clerical Assistance,.....	6,138.33	
Attendance Officers,.....	5,866.58	
		<u>\$20,304.91</u>
Forward,.....		<u>\$20,304.91</u>

Forward.....		\$20,804.91
Administration.		
Stationery and Office Supplies.....		\$65.60
Printing.....		1,043.55
Advertising.....		36.89
Communication Service.		
Postage.....	\$691.65	
Telephone.....	73.06	
Telegraph.....	35.47	
		800.18
Transportation Service.		
Freight and Express.....		6.29
Other Miscellaneous Supplies and Expenses Not Elsewhere Provided for.		
Auto Upkeep.....	\$250.00	
Magazine Subscriptions.....	51.30	
Miscellaneous.....	9.60	
		310.90
Traveling Expenses.....		892.23
Maintenance and Repairs of Equipment.....		2.00
Storehouse.		
Salary, Storekeeper.....		1,066.65
Expenses.		
Assistance.....	\$645.91	
Telephone.....	66.74	
Delivering Supplies.....	1,595.57	
Miscellaneous.....	17.97	
		2,326.19
Total.....		\$26,655.39

CENTRAL HIGH SCHOOL.

Administration.		
Salary, Principal.....		\$4,000.00
Salaries, Clerical Assistance.....		1,326.94
Office Supplies.....		90.14
Printing.....		608.05
Communication Service.		
Postage.....	\$59.00	
Telephone.....	9.38	
		68.38
Transportation Service.		
Freight and Express.....		1.44
Miscellaneous Supplies and Expenses Not Else- where Provided for.....		5.70
Traveling Expenses.....		174.64
Operation.		
Salaries—Teachers.		
Heads of Departments.....	\$16,962.50	
Teachers.....	54,905.86	
		71,868.36
Forward.....		\$78,143.65

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Forward,.....		\$78,143.65	
Miscellaneous Assistance.			
Laboratory,.....	\$115.58		
Drawing,.....	14.95		
Physical Training,.....	350.06		
Office,.....	79.47		
Piano Accompanist,.....	83.34		
			643.40
Books.			
Text,.....	\$1,757.13		
Reference,.....	76.21		
Magazine Subscriptions,.....	18.48		
Binding,.....	99.12		
Covers,.....	79.76		
			2,080.70
Stationery Supplies.			
Paper.			
White,.....	\$948.07		
Manila,.....	.90		
Drawing,.....	50.74		
Notebooks,.....	297.18		
Envelopes,.....	41.75		
Blotting,.....	13.10		
Pressboard and Cardboard,.....	83.00		
Miscellaneous,.....	276.86		
			\$1,661.60
Ink,.....	47.10		
Paste, etc.,.....	9.36		
Pencils,.....	51.85		
Pens and Holders,.....	9.96		
Thumb Tacks and Paper Fasteners,.....	21.52		
Rubber Erasers,.....	17.10		
Rubber Bands,.....	2.14		
Miscellaneous,.....	3.00		
			1,823.63
Supplies and Materials Used in Special Courses.			
Physics and Chemistry.			
Small glassware and other small laboratory articles,.....	\$24.86		
Chemicals,.....	161.35		
Miscellaneous,.....	122.79		
			309.00
Domestic Science.			
Cookery.			
Provisions,.....	\$98.53		
Miscellaneous,.....	5.44		
			\$103.97
Sewing Supplies,.....	62.59		
			166.56
Physical Training.			
Rent of Field,.....	\$75.00		
Miscellaneous,.....	60.90		
			135.90
Forward,.....	\$611.46	\$82,641.38	

Forward,.....	\$611.46	\$82,641.88
Drawing.		
Paints,.....	\$108.66	
Miscellaneous,.....	139.29	
	242.95	854.41
Other Operating Supplies.		
Outline Maps,.....	\$89.19	
Maps, Charts and Globes,.....	137.16	
Chalk,.....	12.00	
Rules,.....	1.50	
Blackboard Erasers,.....	12.00	
Miscellaneous,.....	21.70	
Sponges,.....	5.27	
Pencil Sharpeners,.....	14.20	
		243.02
Other Operating Expense.		
Graduating Expenses,.....	\$192.44	
Tuning and Rent of Pianos,.....	65.00	
		257.44
Maintenance and Repairs of Equipment.		
Science,.....	\$10.84	
Domestic Science,.....	8.40	
		19.24
Replacement of Equipment.		
Science,.....	\$62.30	
Physical Training,.....	24.00	
		86.30
Total,.....		
		\$84,101.79

TECHNICAL HIGH SCHOOL.

Administration.		
Salary, Principal,.....		\$3,600.00
Salaries, Clerical Assistance,.....		1,754.45
Office Supplies,.....		158.80
Printing,.....		407.17
Communication Service.		
Postage,.....	\$97.24	
Telephone,.....	87.68	
		184.87
Transportation Service.		
Freight and Express,.....		57.63
Miscellaneous Supplies and Expenses,.....		1.15
Traveling Expenses,.....		81.91
Operation.		
Salaries, Teachers.		
Heads of Departments,.....	\$17,927.50	
Teachers,.....	52,941.78	
		70,869.28
Forward,.....		
		\$77,110.21

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Forward.....		\$77,110.21	
Miscellaneous Assistance.			
Tool Room.....	\$241.28		
Household Science.....	5.20		
Drawing.....	2.90		
Laboratory.....	38.25		
Design.....	23.60		
Physical Training.....	41.10		
Piano Accompanist.....	83.83		
Miscellaneous.....	47.15		
			477.71
Books.			
Text.....	\$702.58		
Reference.....	96.98		
Magazine Subscriptions.....	15.00		
Binding.....	25.62		
Covers.....	125.10		
Mending Materials.....	2.50		
			967.78
Stationery Supplies.			
Paper.			
White.....	\$182.80		
Notebooks.....	250.65		
Envelopes.....	3.25		
Blotting.....	3.80		
Miscellaneous.....	18.75		
			\$408.85
Ink.....	12.03		
Pencils.....	49.95		
Pens and Holders.....	33.50		
Rubber Erasers.....	7.70		
Rubber Bands.....	3.60		
			515.63
Supplies and Materials Used in Special Courses.			
Chemistry and Physics.			
Small Glassware and Other Small Laboratory Articles.....	\$59.36		
Chemicals.....	56.51		
Miscellaneous.....	89.17		
			\$305.04
Drawing.			
Small Drawing Tools.....	\$21.32		
Paper, Pencils and Ink.....	656.37		
Miscellaneous.....	37.35		
			715.04
Machine Shop.			
Small Tools.....	\$108.66		
Castings and Metals.....	367.80		
Miscellaneous.....	14.93		
			491.39
Wood Working.			
Lumber.....	\$518.53		
Small Tools.....	62.01		
Miscellaneous.....	81.09		
			661.63
Forward.....	\$2,078.10	\$79,071.28	

Forward, ...	\$2,073.10	\$79,071.28
Household Science.		
Provisions, ...	\$237.02	
Miscellaneous, ...	54.28	
		291.30
Household Arts.		
Sewing Supplies, ...	\$62.86	
Miscellaneous, ...	18.08	
		75.94
Design.		
Miscellaneous, ...	/	59.20
Forging.		
Coal, ...	\$30.00	
Metals, ...	203.97	
Miscellaneous, ...	1.81	
		235.28
Physical Training.		
Rent of Field, ...	\$75.00	
Miscellaneous, ...	114.85	
		189.35
		2,924.17
Other Operating Supplies.		
Compasses, ...	\$7.29	
Paper Towels, ...	44.00	
Miscellaneous, ...	48.56	
		99.85
Other Operating Expenses.		
Graduation Expenses, ...	\$179.99	
Miscellaneous, ...	5.00	
		184.99
Maintenance and Repairs of Equipment.		
Chemistry and Physics, ...	\$5.08	
Machine Shop, ...	21.05	
Wood Work, ...	153.94	
Design, ...	20.70	
Gymnasium, ...	55.60	
		256.32
Replacement of Equipment.		
Wood Work, ...	\$59.47	
Design, ...	8.20	
		67.67
Total, ...		\$82,604.28

HIGH SCHOOL OF COMMERCE.

Administration.	
Salary, Principal, ...	\$3,800.00
Salaries, Clerical Assistance, ...	1,670.00
Stationery and Office Supplies, ...	87.96
Printing, ...	464.31
Forward, ...	\$6,022.27

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Forward,.....		\$6,022.27	
Communication Service.			
Postage,.....	\$32.00		
Telephone,.....	21.69		
			53.69
Transportation Service.			
Freight and Express,.....			35.29
Traveling Expenses,.....			52.71
Operation.			
Salaries, Teachers.			
Heads of Departments,.....	\$12,501.00		
Teachers,.....	62,529.49		
			75,030.49
Salaries, Matron,.....			758.75
Salaries, Miscellaneous.			
Moving Pictures,.....	\$228.00		
Physical Training,.....	130.15		
Piano Accompanist,.....	83.33		
Miscellaneous,.....	3.88		
			445.34
Books.			
Text,.....	\$1,545.78		
Reference,.....	200.68		
Magazine Subscriptions,.....	21.00		
Binding,.....	60.09		
Covers,.....	322.19		
			2,149.70
Stationery Supplies.			
Paper.			
White,.....	\$754.02		
Manila,.....	82.50		
Drawing,.....	44.60		
Bookkeeping,.....	1,065.31		
Notebooks,.....	259.58		
Blotting,.....	60.76		
Typewriting,.....	351.78		
Pressboard and Cardboard,.....	76.80		
Miscellaneous,.....	194.73		
			\$2,840.08
Ink,.....			135.28
Pencils,.....			197.40
Pens and Holders,.....			160.88
Thumb Tacks and Paper Fasteners,.....			22.40
Rubber Erasers,.....			10.50
Rules,.....			35.70
Typewriter Ribbons,.....			217.65
Miscellaneous,.....			17.00
			3,686.87
Supplies and Materials Used in Special Courses.			
Laboratory.			
Small Glassware and Other Small Labora-			
tory Articles,.....	\$12.50		
Chemicals,.....	211.89		
Miscellaneous,.....	111.87		
			\$335.76
Forward,.....	\$335.76		\$88,184.61

Forward.....		\$235.76	\$38,134.61
Shop.			
Lumber.....	\$285.46		
Small Tools and Hardware.....	86.22		
Miscellaneous.....	79.29		
			450.97
Cookery.			
Provisions.....	\$430.49		
Miscellaneous.....	165.02		
			595.51
Sewing.....			83.80
Salesmanship.....			16.42
Physical Training.			
Rent of Field.....	\$75.00		
Laundry.....	519.65		
Miscellaneous.....	84.25		
			678.90
			2,161.36
Other Operating Supplies.			
Paper Towels.....	\$318.92		
Outline Maps.....	21.61		
Miscellaneous.....	123.45		
			478.98
Other Operating Expenses,			
Moving Pictures.....	\$421.89		
Graduation Expenses.....	175.63		
Miscellaneous.....	9.50		
			607.02
Maintenance and Repairs of Equipment.....			65.79
Replacement of Equipment.			
Laboratory.....	\$38.40		
Shop.....	31.04		
Miscellaneous.....	17.46		
			56.90
Total.....			
			\$91,554.66

EVENING SCHOOL OF TRADES.

Administration.			
Salary, Principal.....		\$350.00	
Salaries, Clerical Assistance.....		129.60	
Printing.....		29.12	
Other Miscellaneous Expenses.....		6.00	
Operation.			
Salaries, Teachers.....		4,384.00	
Miscellaneous Assistance.			
Tool Room.....	\$74.65		
Collecting Fees.....	15.00		
			89.65
Supplies and Materials Used in Special Courses.			
Machine Shop.....	\$17.81		
Electricity.....	91.99		
Plumbing.....	42.81		
Sewing.....	5.25		
			157.86
Total.....			
			\$5,094.23

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EVENING HIGH SCHOOL.

Administration.

Salary, Principal, ...	\$245.00
Salaries, Clerical Assistance, ...	98.00
Printing, ...	68.88
Communication Service.	
Postage, ...	54.00

Operation.

Salaries, Teachers, ...	3,742.50
Books, ...	18.78

Stationery Supplies.

Paper.

White, ...	\$8.70
Typewriter, ...	57.20
Manila, ...	1.80
Drawing, ...	1.24
Bookkeeping, ...	48.18
Notebooks, ...	69.86
Blotting, ...	.69
Pressboard and Cardboard, ...	.20
Miscellaneous, ...	1.02

\$188.89

Pens and Holders, ...	15.50
Pencils, ...	29.60
Rubber Erasers, ...	.24

284.23

Other Operating Supplies, ...

89.85

Other Operating Expenses.

Graduation Expenses, ...	\$23.84
Drawing Models, ...	20.00
Miscellaneous, ...	18.11

56.95

Total, ...

\$4,562.14

VOCATIONAL SCHOOL.

Administration.

Salary, Principal, ...	\$1,390.00
Salaries, Clerical Assistance, ...	921.80
Stationery and Office Supplies, ...	2.38
Communication Service.	
Postage, ...	\$58.85
Telephone, ...	7.47

65.82

Transportation Service.

Freight and Express, ...	7.92
Other Miscellaneous Expenses, ...	1.55
Traveling Expenses, ...	6.88

Operation.

Salaries, Teachers, ...	10,222.66
Salaries, Miscellaneous, ...	14.25
Books, ...	12.50

Forward, ...

\$12,645.71

Forward,.....		\$12,645.71	
Stationery Supplies.			
Paper.			
White,.....	\$10.61		
Manila,.....	6.50		
Envelopes,.....	3.85		
Blotting,.....	.29		
Pressboard and Cardboard,.....	3.30		
Miscellaneous,.....	9.00		
		\$33.05	
Paste, etc.,.....		7.45	
Pencils,.....		3.00	
Thumb Tacks and Paper Fasteners,.....		6.25	
Rubber Erasers,.....		.68	
			50.43
Supplies and Materials Used in Special Courses.			
Printing.			
Paper and Cardboard,.....	\$1,092.07		
Ink,.....	158.95		
Miscellaneous,.....	100.70		
		\$1,351.72	
Carpentry.			
Lumber,.....	\$56.95		
Hardware,.....	3.78		
Miscellaneous,.....	33.82		
		99.55	
Cabinet.			
Lumber,.....	\$120.24		
Hardware,.....	7.44		
Miscellaneous,.....	18.85		
		146.53	
Pattern.			
Hardware,.....	\$39.59		
Miscellaneous,.....	1.83		
		41.42	
Machine Shop.			
Small Tools,.....	\$30.61		
Metals and Castings,.....	411.77		
Miscellaneous,.....	158.62		
		601.00	
			2,240.22
Other Operating Supplies.			
Paper Towels,.....	\$341.75		
Miscellaneous,.....	16.02		
		357.77	
Other Operating Expenses.			
Graduation Expenses,.....	\$1.50		
Miscellaneous,.....	27.59		
		29.09	
Maintenance and Repairs of Equipment.			
Printing,.....	\$18.30		
Carpentry,.....	20.46		
Forward,.....	\$38.76	\$15,323.22	

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Forward,.....	\$38.76	\$15,323.22
Cabinet,.....	8.80	
Pattern,.....	1.00	
Machine Shop,.....	15.40	
Miscellaneous,.....	14.00	
		72.96
Replacement of Equipment.		
Printing,.....	\$397.67	
Carpentry,.....	6.98	
Cabinet,.....	8.67	
Machine Shop,.....	277.95	
		686.27
Total,.....		\$16,082.45

VOCATIONAL—SPECIAL.

Tuition.		
Smith's Agricultural School of Northampton,		\$30.00

VOCATIONAL EVENING SCHOOL.

Salaries, Teachers,.....	\$3,550.45	
Supplies,.....	108.16	
Other Expenses,.....	16.23	
		\$3,674.89
Total,.....		

GRADED SCHOOLS.

Administration.		
Salaries, Supervisors,.....	\$20,972.50	
Supervising Principals,.....	45,787.50	
		\$66,760.00
Salaries, Clerical Assistance,.....	490.00	
Stationery and Office Supplies,.....	86.61	
Printing,.....	1,015.19	
Communication Service.		
Telephone,.....	1,450.26	
Transportation Service.		
Freight and Express,.....	9.40	
Miscellaneous Supplies and Expenses,.....	4.00	
Operation.		
Salaries, Teachers,.....	466,033.79	
Salaries, Matrons,.....	4,394.40	
Salaries, Miscellaneous.		
Industrial Work,.....	\$604.22	
Physical Training,.....	50.50	
Care of Lunch Rooms,.....	108.00	
		\$762.72
Transportation of Pupils,.....	2,710.00	
Support of Truants,.....	952.36	
		\$544,618.73
Forward,.....		

Forward..... \$544,618.73

Books.

Text.....	\$10,874.53
Reference.....	1,098.22
Binding.....	320.77
Mending Materials.....	43.00
Covers.....	3,695.84
Writing Copies.....	130.00

16,161.86

Stationery Supplies.**Paper.**

White.....	\$4,948.02
Manila.....	2,316.20
Drawing.....	1,256.22
Bookkeeping.....	240.00
Notebooks.....	817.72
Envelopes.....	866.30
Blotting.....	158.68
Pressboard and Cardboard.....	634.43
Miscellaneous.....	206.70

\$10,989.27

Ink.....	303.49
Paste, etc.....	362.19
Pencils.....	1,960.88
Pens and Holders.....	2,169.78
Thumb Tacks and Paper Fasteners.....	341.91
Rubber Erasers.....	164.08
Rubber Bands.....	76.68
Miscellaneous.....	43.80

16,362.06

Supplies and Materials Used in Special Courses.**Physical Training.**

Soccer Football.....	\$15.63
Baseball.....	273.21
Gymnasium.....	10.70
Phonograph Records and Dance Music.....	86.50
Miscellaneous.....	185.70

\$571.74

Industrial Work.

Lumber.....	\$2,241.59
Metals.....	297.38
Cement, Sand, etc.....	25.78
Paints, etc.....	488.95
Hardware.....	890.44
First-Aid Supplies.....	36.63
Printing Supplies.....	263.08
Mechanical Drawing.....	415.46
Miscellaneous.....	357.78

5,016.99

Forward..... \$5,588.73 \$577,142.67

Forward,.....		\$5,588.78	\$577,142.67
Household Science and Practical Arts.			
Cookery.			
Provisions,.....	\$1,423.14		
Ice,.....	47.48		
Dishes and Cooking Utensils,..	182.22		
Laundry,.....	48.21		
Miscellaneous,.....	16.95		
		\$1,718.00	
Sewing,.....		409.36	
			2,127.36
Science.			
School Gardens,.....		\$93.95	
Miscellaneous,.....		409.84	
			503.79
Drawing.			
Paints,.....		\$383.54	
Paint Pens and Brushes,.....		178.67	
Drawing Crayons,.....		869.14	
Miscellaneous,.....		132.48	
			1,563.83
			9,783.71
Other Miscellaneous Supplies.			
Kindergarten Supplies,.....		\$155.17	
Outline Maps,.....		79.00	
Compasses,.....		354.60	
Rules,.....		165.41	
Maps, Charts and Globes,.....		196.95	
Blackboard Erasers,.....		244.92	
Sponges,.....		472.96	
Chalk,.....		187.84	
Pencil Sharpeners,.....		160.24	
Scissors,.....		914.70	
Mats,.....		62.75	
Burlap,.....		75.90	
Paper Towels,.....		1,024.01	
Linen Towels,.....		812.65	
Hygiene Supplies,.....		106.81	
Miscellaneous,.....		1,134.09	
			5,648.00
Open-Air Rooms.			
Provisions,.....		\$1,270.75	
Labor,.....		85.00	
Miscellaneous,.....		135.44	
			1,441.19
Other Operating Expenses.			
Tuning Pianos, etc.,.....		\$96.90	
Graduation Expenses,.....		1.75	
			98.65
Maintenance and Repairs of Equipment.			
Physical Training,.....		\$2.00	
Industrial Work,.....		120.15	
Household Science and Practical Arts,.....		11.24	
Forward,.....		\$138.89	\$594,114.22

Forward, ...	\$133.39	\$594,114.22
Science, ...	4.50	
Miscellaneous, ...	10.30	
		148.19
Replacement of Equipment.		
Industrial Work, ...	\$224.07	
Household Science and Practical Arts, ...	111.43	
Science, ...	44.40	
Miscellaneous, ...	53.80	
		433.70
Total, ...		
		\$594,696.11

KINDERGARTENS.

Salaries, Teachers, ...	\$38,105.20
Supplies, ...	683.72
Other Operating Expenses, ...	65.15
Replacement of Equipment, ...	34.50
Total, ...	\$38,893.57

ELEMENTARY EVENING SCHOOLS.

Salary, Principals, ...	\$456.50
Salaries, Teachers, ...	2,372.50
Books, ...	12.96
Stationery Supplies, ...	49.62
Other Supplies, ...	3.20
Total, ...	\$2,894.78

SUMMER SCHOOLS.

Salaries, ...	\$7,934.50
Supplies, ...	261.19
Total, ...	\$8,245.69

HIGH SCHOOLS LUNCH.

Salaries.		
Director, ...	\$1,220.00	
Assistant Director, ...	680.00	
Assistance, ...	6,068.91	
		\$7,968.91
Supplies.		
Provisions, ...	\$16,604.55	
Ice, ...	199.75	
Cleaning Supplies, ...	22.72	
Napkins, ...	30.60	
Miscellaneous, ...	29.60	
		16,887.22
Forward, ...		
		\$24,856.18

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Forward, ...		\$24,856.13
Other Expenses.		
Car Fares, ...	\$30.82	
Laundry, ...	115.56	
Postage, ...	5.00	
Telephone, ...	49.50	
Miscellaneous, ...	78.82	
		279.70
Maintenance and Repairs of Equipment, ...		19.15
Replacement of Equipment, ...		217.02
Total, ...		\$25,372.00
Grand Total, ...		\$985,058.98

SMOKE INSPECTOR (Schedule 87).

Operation.		
Salaries and Wages, ...	\$250.00	
Stationery and Office Supplies, ...	9.50	
Miscellaneous, ...	15.75	
		\$275.25

SOLDIERS' AND SAILORS' BENEFITS (Schedule 88).

Administration.		
Salary of Secretary, ...	\$1,184.94	
Stationery and Office Supplies, ...	6.99	
Printing, Binding, etc., ...	28.52	
Communication Service, ...	25.63	
Transportation Service, ...	27.94	
Miscellaneous, ...	17.00	
		\$1,291.02
State Aid.		
Contributions to Civil War Veterans, ...	\$11,274.00	
Contributions to Spanish War Veterans, ...	144.00	
		11,418.00
Soldiers' Relief.		
Contributions, ...		6,349.23
		\$19,058.25
Less Refunds, ...		16.00
		\$19,042.25

SOLDIERS' AND SAILORS' GRAVES, CARE OF (Schedule 89).

Administration.		
Salary of Supervisor, ...	\$99.96	
Care of Graves, ...	685.00	
		\$784.96

STREETS AND ENGINEERING (Schedule 40),

Completed Work.

Bridge Construction,.....		\$1,578.58
Bridge Maintenance.		
Assessable,.....	\$11,741.99	
City's Proportion,.....	42,999.24	
		54,741.23
Collection of Ashes.		
Assessable,.....	\$622.84	
City's Proportion,.....	185,861.81	
		186,484.65
Collection of Garbage,.....		45,589.93
Forestry Operation.		
City's Proportion,.....		299.08
Highways Construction.		
Assessable,.....	\$124,711.46	
City's Proportion,.....	89,815.40	
		214,526.86
Highways Maintenance.		
Assessable,.....	\$22,174.79	
City's Proportion,.....	108,590.74	
		130,765.53
Mayor's Automobile,.....		2,150.07
Municipal Automobile,.....		1,287.08
Work done for City Departments and Others,...		14,124.40
Repair Shop,.....		2.21
Sewers Construction.		
Assessable,.....	\$26.00	
City's Proportion,.....	48,064.08	
		48,090.08
Sewers Maintenance.		
Assessable,.....	\$3,448.05	
City's Proportion,.....	21,070.81	
		24,518.86
Sidewalks and Curbing Construction.		
Assessable,.....	\$22,008.42	
City's Proportion,.....	10,911.41	
		32,919.83
Sidewalks and Curbing Maintenance.		
Assessable,.....	\$653.44	
City's Proportion,.....	5,514.05	
		6,167.49
Stables and Yards.		
Assessable,.....	\$14.17	
Improvements,.....	5,239.49	
		5,253.66
Street Cleaning.		
Assessable,.....	\$49.62	
City's Proportion,.....	115,487.12	
		115,536.74
Street Lighting,.....		140,897.77
Forward,.....		\$974,934.00

Forward.....		\$974,984.00	
Street Oiling.....			
City's Proportion.....	23,635.57		
Street Sprinkling.....	14,542.47		
Not Chargeable to Other Departments.....	10,151.10		
Miscellaneous Expenditures.....			
Unpaid Bills, 1917.....	3,186.29		
Material from Sources Unaccounted For.....	147.91		
Adjustments, Overhead Expense.....	6,029.87		
		<u>\$1,082,577.21</u>	
Less Use of Equipment.....			<u>510.98</u>
			<u>\$1,082,066.23</u>
Less Refunds.....			<u>150,518.33</u>
			<u>\$881,547.90</u>
TAXES (Schedule 41).			
County Tax.....	\$183,886.40		
National Bank Tax.....	18,817.60		
State Tax.....	409,750.00		
		<u>\$611,954.00</u>	
TAX EXEMPTIONS, SOLDIERS' AND SAILORS' (Schedule 42).			
Payment to Commonwealth.....			\$908.50
UNITED STATES ARMY TRAINING SCHOOL (Schedule 43).			
Salaries and Wages.....	\$8,027.13		
Barracks, Mess Hall, etc.....	17,953.30		
Meals.....	14,772.20		
Furniture and Furnishings.....	1,214.70		
Miscellaneous Supplies and Expenses.....	9,325.88		
		<u>\$51,293.21</u>	
WEIGHTS AND MEASURES, SEALER OF (Schedule 44).			
Administration.....			
Salary of Sealer.....	\$1,002.39		
Stationery and Office Supplies.....	52.43		
Printing, Binding, etc.....	39.23		
Communication Service.....	10.03		
Transportation Service.....	243.03		
Miscellaneous Supplies and Expenses.....	489.60		
		<u>\$1,886.76</u>	
Operation.....			
Salaries, Deputies and Inspector.....	\$2,231.98		
Automobile Service.....			
Operating Supplies.....	\$181.00		
Repairs and Replacements.....	758.95		
Other Expenses.....	97.58		
		<u>1,087.53</u>	
			<u>\$3,269.51</u>
			<u>\$5,106.27</u>

WIRES, INSPECTOR OF (Schedule 45).**Operation.**

Salary of Inspector,.....	\$525.00	
Other Expenses,.....	9.80	
Communication Service,.....	134.62	
Printing, Binding, etc.,.....	12.14	
		\$681.56

Maintenance and Repairs.

Cable,.....	\$1,259.57	
Pipe and Labor,.....	147.58	
Other Supplies,.....	29.86	
		1,437.01
		\$2,118.57

WORKMEN'S COMPENSATION (Schedule 46).

Damages and Compensation,.....	\$1,999.97
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EXPENSE.

INCURRED IN YEAR ENDED NOVEMBER 30, 1918.

WATER FUND.

(Schedule J.)

WATER DEPARTMENT.

Operating Expense.

Commercial Expense.....	\$13,031.99	
Distribution Expense.....	48,031.28	
General Expense.....	81,015.97	
Source of Supply.....	43,844.94	
Transmission Expense.....	3,880.88	
Undistributed Expense.....	8,556.78	
Public Safety Expense.....	19,202.13	
		\$167,563.97
Less Amount charged for water used by Water Works.....	\$84.85	
Less Amount charged for rents of houses occupied by employees.....	1,581.84	
		1,616.19
		\$165,947.78

Miscellaneous Expense.

Interest on Bonded Indebtedness.....	\$77,060.00	
Depreciation Charge.....	36,000.00	
Reserve for Abated Bills.....	2,056.08	
		115,116.08
Cost of Sales (Chargeable to Consumer).....		87,472.42
Total.....		\$318,536.28

STORES.
Inventory as of November 30, 1918.
(Schedule K.)

GENERAL FUND:	
Public Buildings, Department of,.....	\$3,212.90
Streets and Engineering, Department of,.....	56,768.64
	\$68,981.54
WATER FUND:	
Water Department,.....	132,011.95
	\$190,993.49

ESTIMATED REVENUES.
For the Fiscal Year Ended November 30, 1918.

	Estimate for Year.	Accruals for Year.	Deficit.
Additional Taxes, 1917.			
Additional Taxes, 1918.	\$20,122.53	\$2,577.45	\$17,545.08
Corporation Tax.	300,000.00	302,014.48	662.00
Income Tax Reimbursement.	402,536.14	389,581.92	4,976.48
Fees.	3,500.00	7,331.62	4,213.32
Fines.	14,000.00	12,432.76	2,133.32
Interest.	32,000.00	42,923.68	1,587.24
Licenses.	182,000.00	172,235.42	10,764.58
Privileges.	34,000.00	11,210.71	22,789.29
Rents.	20,000.00	39,612.37	22,759.28
Special Assessments.	19,428.53	18,392.54	46.15
Charities, Department of.	105,000.00	74,214.54	30,785.46
Fire Department.	85,000.00	32,452.32	52,547.68
Health Department.	1,000.00	337.07	662.93
Police Department.	25,000.00	16,537.62	8,462.38
Public Buildings, Department of.	1,500.00	3,144.48	1,644.48
Streets and Engineering, Department of.	2,000.00	863.85	1,136.15
Education.	50,000.00	44,809.80	5,190.20
Public Parks.	89,000.00	58,433.13	24,514.87
Soldiers' and Sailors' Benefits.	2,000.00	1,436.67	573.33
Army Training School.	25,000.00	21,839.91	3,160.09
Miscellaneous.	25,000.00	26,665.66	1,665.66
	10,287.00	15,150.60	4,863.60
	\$1,896,461.20	\$1,303,843.69	\$592,617.51

NOTE:—Figures in italics indicate excess over estimate.

STORES.
Inventory as of November 30, 1918.
(Schedule K.)

GENERAL FUND:	
Public Buildings, Department of.....	\$3,212.90
Streets and Engineering, Department of.....	55,768.64
	\$58,981.54
WATER FUND:	
Water Department.....	132,011.95
	\$190,993.49

ESTIMATED REVENUES.
For the Fiscal Year Ended November 30, 1918.

	Estimate for Year.	Accruals for Year.	Deficit.
Additional Taxes, 1917.....	\$20,122.53	\$2,577.45	\$17,545.08
Additional Taxes, 1918.....	300,000.00	668.00	668.00
Corporation Tax.....	402,645.14	302,016.48	2,016.48
Income Tax Refundement.....	9,500.00	398,381.92	4,263.22
Fees.....	14,000.00	7,381.68	2,118.32
Fines.....	32,000.00	12,432.76	1,567.24
Interest.....	42,923.68	42,923.68	10,923.68
Licenses.....	180,000.00	172,235.42	7,764.58
Permits.....	84,000.00	11,240.74	22,769.26
Privileges.....	19,426.53	38,612.37	20,185.84
Rents.....	20,000.00	18,392.54	1,607.46
Special Assessments.....	105,000.00	74,214.54	30,785.46
Charities, Department of.....	35,000.00	32,452.22	2,547.68
Fire Department.....	1,000.00	387.07	612.93
Health Department.....	25,000.00	16,537.62	8,462.38
Police Department.....	1,500.00	3,144.48	1,644.48
Public Buildings, Department of.....	2,000.00	863.35	1,136.65
Streets and Engineering, Department of.....	50,000.00	44,809.90	5,190.10
Education.....	83,000.00	58,483.13	24,516.87
Public Parks.....	2,000.00	1,428.67	571.33
Soldiers' and Sailors' Benefits.....	25,000.00	21,339.91	3,660.09
Army Training School.....	25,000.00	26,665.66	1,665.66
Miscellaneous.....	10,267.00	15,150.60	4,883.60
	\$1,896,461.20	\$1,303,843.69	\$592,617.51

NOTE:—Figures in italic indicate excess over estimate.

ESTIMATED REVENUES.

(Schedule D)

For the Fiscal Year Ended November 30, 1919.

	Estimate for Year.	Accruals for Year.	Necessary to Meet Esti- mate.
Army Training School—1919 Account.....	\$42,000.00	.....	\$42,000.00

SALARIES

AS OF NOVEMBER 30, 1918.

Assessors.....	\$2,700.00
Clerks.....	\$750.00 to 1,800.00
Building Department:	
Commissioner.....	8,700.00
Inspector of Buildings.....	1,700.00
Inspector of Gas Piping.....	1,500.00
Inspector of Plumbing.....	1,900.00
Inspector of Inside Wires.....	1,900.00
Inspectors of Elevators.....	1,500.00
Assistant Inspector of Plumbing.....	1,800.00
Assistant Inspector of Inside Wires.....	1,500.00
Assistant Inspector of Inside Wires.....	1,400.00
Clerk.....	1,000.00
Charities Department:	
Agent.....	2,200.00
Assistant Agent.....	1,500.00
City Physician.....	2,200.00
Almshouse Master.....	1,200.00
Clerks.....	\$780.00 to 1,500.00
City Auditor.....	3,400.00
City Auditor, Deputy.....	2,100.00
Clerks.....	\$850.00 to 1,250.00
City Clerk.....	3,200.00
City Clerk, Assistant.....	1,400.00
Clerks.....	\$670.00 to 900.00
City Collector.....	3,400.00
Clerks.....	\$780.00 to 1,800.00
City Printing Expert.....	600.00
City Treasurer.....	3,700.00
Treasurer of Trust Funds.....	300.00
City Treasurer, Deputy.....	2,300.00
Clerks.....	\$1,050.00 to 1,800.00
Common Council, Clerk.....	500.00
Fire Department:	
Chief.....	3,200.00
Deputy Chief.....	2,600.00
District Chiefs.....	2,200.00
Captains.....	1,900.00
Lieutenants.....	1,700.00
Superintendent of Fire Alarm.....	1,650.00
Superintendent of Fire Apparatus Repairs.....	1,900.00
Firemen—Grade A.....	(day) 4.11
Firemen—Grade B.....	(day) 3.88
Firemen—Grade C.....	(day) 3.55
Clerks.....	1,250.00
Fish Warden.....	25.00
Forest Warden.....	100.00
Health Department:	
Agent.....	2,200.00
Dentist.....	700.00
Health Physician.....	2,200.00
Inspector of Milk and Vinegar.....	1,600.00

Inspector of Meats and Provisions,.....	\$1,200.00
Inspector of Slaughtering,.....	300.00
Assistant Inspector of Milk and Vinegar,.....	1,700.00
Sanitary Inspector, Chief,.....	1,800.00
Sanitary Inspectors,.....	1,500.00
Clerks,.....	\$700.00 to 1,200.00
Law Department:	
City Solicitor,.....	3,500.00
City Solicitor, Assistant,.....	1,400.00
City Prosecuting Attorney,.....	1,400.00
Clerk,.....	1,000.00
License Commission, Chairman,.....	250.00
Clerk,.....	150.00
Mayor,.....	4,000.00
Clerk,.....	1,300.00
Messenger,.....	1,600.00
Municipal Chime Ringer,.....	350.00
Police Department:	
Chief,.....	3,200.00
Deputy Chief,.....	2,300.00
Captain of Detectives,.....	2,000.00
Captains,.....	1,900.00
Detective Lieutenants,.....	1,700.00
Lieutenants,.....	1,700.00
Detective Sergeants,.....	1,600.00
Sergeants,.....	1,600.00
Matrons,.....	750.00
Superintendent of Police Signal System,.....	500.00
Patrolmen—Grade A,.....	(day) 4.11
Patrolmen—Grade B,.....	(day) 3.83
Patrolmen—Grade C,.....	(day) 3.55
Reserves and Specials,.....	(day) 3.25
Lookup Keeper,.....	25.00
Clerks,.....	\$835.00 to 1,300.00
Public Buildings, Superintendent,.....	2,800.00
Clerks,.....	\$625.00 to 1,400.00
Public Parks, Superintendent,.....	3,200.00
Clerk,.....	1,500.00
Registrars of Voters,.....	350.00
Registrars of Voters, Clerk,.....	450.00
Clerks,.....	\$900.00 to 1,100.00
School Department:	
Superintendent,.....	5,000.00
Assistant Superintendent, etc.,.....	3,000.00
Chief Clerk,.....	2,500.00
Attendance Officer,.....	1,800.00
Assistant Attendance Officer,.....	1,400.00
Clerks,.....	\$750.00 to 1,200.00
Smoke Inspector,.....	250.00
Soldiers' Relief Commissioner,.....	1,800.00
Soldiers' and Sailors' Graves, Supervisor of,.....	200.00
Streets and Engineering, Department of:	
Superintendent,.....	4,000.00
Superintendent, Division of Streets,.....	3,000.00
Superintendent, Division of Engineering,.....	2,500.00
Superintendent, Division of Sewers,.....	2,200.00

Superintendent, Division of Garbage, etc.,	\$1,800.00
Superintendent, Division of Street Lighting,	1,800.00
Clerks,	\$520.00 to 1,400.00
Wires, Inspector of (Outside),	850.00
Weights and Measures:	
Scaler,	1,800.00
Deputy Scaler,	1,800.00
Deputy Scaler,	1,200.00
Water Department:	
Chief Engineer,	5,000.00
Assistant Engineer,	3,000.00
Assistant Engineer,	1,668.00
Assistant Engineer,	1,564.00
Superintendent,	3,300.00
Assistant Superintendent,	2,500.00
Registrar and Clerk,	2,500.00
Chemist,	1,800.00
Clerks,	\$520.00 to 1,650.00

SINKING FUNDS.

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS

SPRINGFIELD, MASS., November 25, 1918.

To His Honor, the Mayor, and the City Council.

GENTLEMEN:—The Commissioners of the Sinking Funds of the City of Springfield have the honor to report the condition of the sinking funds, established to meet indebtedness of the city, and the income accruing to the same for the year ending November 17, 1918, as follows:—

WATER WORKS.

\$275,000, 3½% and 4% bonds, 1920 and 1923.

RECEIPTS.

Amount on hand at last report,.....	\$153,736.99
Surplus balance from the Water Department for 1917, received January 1, 1918,.....	16,406.78
Interest on bank balances,.....	93.06
Interest on investments,.....	6,684.49
Addition of difference between price paid and par value of bonds bought during the year,	24.00
	\$176,945.32
Accrued interest paid on bonds— charged off,.....	\$215.83
Premium paid on bonds—charged off,.....	149.50
	365.33
	\$176,579.99

INVESTMENTS.

United States 4¼% Liberty Loan bonds,.....	\$13,000.00
City of Springfield bonds,.....	76,000.00
Municipal bonds,.....	59,000.00
Railroad bonds,.....	26,000.00
Cash in bank at interest,.....	2,579.99
	\$176,579.99

SCHOOL LOANS.

\$968,000 Twenty Year School Loans, maturing as follows—

\$20,000	3½%	bonds, due December 1, 1919.
125,000	3 %	bonds, due June 1, 1920.
125,000	3½%	bonds, due September 1, 1921.
55,000	3½%	bonds, due October 1, 1922.
40,000	3½%	bonds, due September 1, 1923.
396,000	3½%	bonds, due January 1, 1925.
207,000	4 %	bonds, due November 1, 1926.

RECEIPTS.

Amount on hand at last report,.....	\$650,335.97	
Appropriation of City Council received November 15, 1918,.....	35,300.00	
Interest on bank balances,.....	169.02	
Interest on investments,.....	23,680.77	
Addition of difference between price paid and par value of bonds bought during the year,	45.90	
	<u>\$709,531.66</u>	
Accrued interest paid on bonds— charged off,.....	\$441.21	
Premium paid on bonds—charged off,	68.50	
	<u>509.71</u>	
		<u>\$709,021.95</u>

INVESTMENTS.

United States 4¼% Liberty Loan bonds,.....	\$101,000.00	
City of Springfield bonds,.....	366,500.00	
Municipal bonds,.....	148,250.00	
Massachusetts, Commonwealth of, bonds,....	5,000.00	
Railroad bonds,.....	82,000.00	
Street Railway bonds,.....	2,500.00	
Cash in bank at interest,.....	3,771.95	
	<u>\$709,021.95</u>	

SEWER LOAN, 1900.

Loan \$142,000, 3% bonds, June 1, 1900, 30 years.

RECEIPTS.

Amount on hand at last report,.....	\$75,458.43	
Appropriation of City Council received November 15, 1918,.....	3,000.00	
Interest on bank balances,.....	31.50	
Interest on investments,.....	2,258.75	
	<u>\$80,748.68</u>	
Accrued interest paid on bonds—charged off,..	14.71	
	<u>\$80,733.97</u>	

INVESTMENTS.

United States 4¼% Liberty Loan bonds,.....	\$8,000.00	
City of Springfield bonds,.....	32,000.00	
Municipal bonds,.....	16,000.00	
Railroad bonds,.....	19,000.00	
Street Railway bonds,.....	5,300.00	
Cash in bank at interest,.....	433.97	
		\$80,733.97

PUBLIC PARK LOAN, 1903.

Court Square Extension.

Loan \$125,000, 3½% bonds, June 1, 1903, 20 years.

RECEIPTS.

Amount on hand at last report,.....	\$95,424.81	
Appropriation of City Council received November 15, 1918,.....	4,700.00	
Interest on bank balances,.....	18.90	
Interest on investments,.....	3,183.44	
Addition of difference between price paid and par value of bonds bought during the year,	10.00	
		\$103,337.15
Accrued interest paid on bonds—charged off,.	34.21	
		\$103,302.94

INVESTMENTS.

United States 4¼% Liberty Loan bonds,....	\$13,000.00	
City of Springfield bonds,.....	42,000.00	
Municipal bonds,.....	21,000.00	
Railroad bonds,.....	19,000.00	
Street Railway bonds,.....	7,700.00	
Cash in bank at interest,.....	602.94	
		\$103,302.94

RECAPITULATION.

REVENUE FROM ALL SOURCES.

Surplus balance from Water Department, received January 1, 1918,.....	\$16,406.78	
Appropriation of City Council received November 15, 1918,.....	43,000.00	
Interest on bank balances,.....	312.48	
Interest on investments,.....	35,807.45	
		\$95,526.71
Amount carried forward,.....		\$95,526.71

Amount brought forward,.....	\$95,526.71	
Addition of difference between price paid and par value of bonds bought during the year,		79.90
Total revenue,.....	\$95,606.61	
Amount on hand at last report,.....	974,956.20	
	<u>\$1,070,582.81</u>	
Accrued interest paid on bonds— charged off,.....	\$705.96	
Premium paid on bonds—charged off,.....	218.00	
	<u>923.96</u>	
		<u>\$1,069,638.85</u>

INVESTED AS FOLLOWS:—

United States 4½% Liberty Loan bonds,.....	\$135,000.00	
Massachusetts, Commonwealth of, bonds,.....	5,000.00	
Springfield bonds, City of,.....	516,500.00	
Bonds and Notes—Municipal and Town,.....	244,250.00	
Railroad bonds,.....	146,000.00	
Street Railway bonds,.....	15,500.00	
	<u>\$1,062,250.00</u>	
Cash in bank at interest,.....	7,388.85	
		<u>\$1,069,638.85</u>

Respectfully submitted,

ROBERT O. MORRIS,
A. WILLARD DAMON,
A. B. WALLACE,

*Commissioners of the Sinking Funds.*ELIPHALET T. TIFFT, *Treasurer.*

THE CITY OF
SPRINGFIELD, MASSACHUSETTS.

25 November, 1918.

MESSRS. ROBERT O. MORRIS, ANDREW B. WALLACE AND A. WILLARD
DAMON, Commissioners of the Sinking Funds, Springfield, Mass.

DEAR SIRS:—I have examined the report of the Treasurer of your Sinking Funds, as rendered for the current fiscal year, and find it correct, with securities in his possession amounting to one million, sixty-two thousand, two hundred and fifty dollars (\$1,062,250.00) and cash in bank amounting to seven thousand, three hundred eighty-eight dollars and eighty-five cents (\$7,388.85), a total of one million, sixty-nine thousand, six hundred and thirty-eight dollars and eighty-five cents (\$1,069,638.85).

Very truly yours,

WM. G. MCINTYRE,

City Auditor.

REPORT OF THE MANAGERS

OF THE

DAVID P. SMITH FUND

FOR THE YEAR ENDING DECEMBER 31, 1918.

To His Honor, the Mayor, and the City Council:—

The managers present herewith their sixth report, which deals with the expenditure of the income from the fund for the past year.

Reference is made to the first report published in the Municipal Register of 1914 for a history of the fund, its purpose and method of distribution.

The Treasurer's summary is as follows:—

Balance in fund January 1, 1918, ...	\$358.00
Income received during 1918, ...	1,434.35
	<u>\$1,792.35</u>
Expended for aid of sick children, ...	\$975.25
Union Trust Company for services, ...	100.00
	<u>1,075.25</u>
Balance on hand January 1, 1919, ...	\$717.10

During the past year seventy-four children received medical or surgical attention, a much smaller number than in 1917, which is accounted for by the fact that many of the doctors were enlisted in the service and the crowded condition of hospitals, due to the epidemic of influenza, restricted the cases to those requiring immediate attention.

Respectfully submitted,

ARTHUR A. ADAMS, *Mayor*,
 WILLIAM J. QUILTY, *Chief of Police*,
 E. T. TIFFT, *City Treasurer*,
Managers.

E. T. TIFFT,
Treasurer and Secretary.

CITY TREASURER'S REPORT.

NOVEMBER 30, 1918.

With Certificate of City Auditor Attached.

CITY TREASURER'S REPORT

CITY OF SPRINGFIELD, MASS.

CITY TREASURER'S OFFICE, December 30, 1918.

To His Honor, the Mayor, and the City Council:—

I have the honor to submit herewith the annual report of the City Treasurer, showing the operation and condition of the City Treasury and Sinking Funds; and presenting other information relative to finances of the City of Springfield for the fiscal year ending November 30, 1918.

The total operations of the City Treasury for the fiscal year 1918 are summarized as follows:—

CASH RECEIPTS.		CASH PAYMENTS.	
From Revenue sources, \$7,808,790.88		For Revenue purposes, as per Treasury Warrants,.....	\$7,478,641.48
From Non-Revenue sources,.....	859,890.22	For Non-Revenue purposes as per Treasury Warrants,.....	909,389.48
	<u>\$8,668,681.10</u>		<u>\$8,388,030.96</u>
Cash balance December 1, 1917,.....	453,886.35	Cash on hand November 30, 1918,..	734,536.49
	<u>\$9,122,567.45</u>		<u>\$9,122,567.45</u>

The following statement gives more detail in reference to receipts and payments.

REVENUE CASH RECEIPTS.

From Collector:—

Taxes of 1916,.....	\$601.20
Taxes of 1917,.....	785,700.07
Taxes of 1918,.....	2,898,370.30
Taxes paid after abatement,.....	68.02

Amount carried forward,	<u>\$3,684,739.59</u>
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Amount brought forward,	\$3,684,739.59
Street Watering Taxes, 1917,.....	8,374.01
Street Watering Taxes, 1918,.....	29,445.50
Water sales,.....	470,109.74
Water, miscellaneous sales,.....	44,768.87
Department bills collected,.....	211,559.15
Interest on taxes, bank balances, and department bills,.....	27,775.80
Excise Tax, Springfield Street Railway Co.,.....	19,426.53
Fees, official,.....	3,302.49
Licenses, theater, circus, dance, elevator, etc.,.....	9,277.90
Licenses granted by Police Commis- sioners, ...	5,542.90
Rentals:—	
School halls, ...	220.50
Auditorium,.....	6,405.70
Administration building,.....	3,097.80
Organ,.....	115.00
	\$4,524,161.48

From Commonwealth of Massachusetts:—

Corporation tax, balance of 1917,.....	\$42,144.71
Corporation tax, on account of 1918,....	227,106.78
Corporation tax, public service for 1918,..	30,014.54
Income tax, balance for 1917,.....	29,800.00
Income tax for 1918,.....	368,581.92
National Bank tax of 1918,.....	5,736.29
Reimbursement of State and Military aid,.....	21,066.81
Reimbursement for Soldiers' and Sailors' burials,.....	773.10
Vocational School, State appropriations,..	9,303.92
	734,528.07

From County Treasurer, Dog fund 1917 for

City Library Association,.....	\$4,853.55
Premium on \$800,000 Dwight street widening loan issued December 1,.....	4,712.00

Amounts carried forward, \$9,565.55 \$5,258,689.55

Treasurer's Report.

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Amounts brought forward,	\$9,565.55	\$5,258,689.55
Interest on Treasurer's bank balances and accrued interest on bonds,.....	15,138.43	
High Schools' Lunch Fund, sale of lunches,...	26,627.89	
Licenses collected by City Treasurer:—		
Liquor,.....	147,802.00	
Liquor, from transfer,.....	2,707.67	
Sunday sales, Common Victualers and Innholders,.....	1,200.00	
Milk,.....	471.50	
Hawkers and peddlers,.....	225.00	
All others,.....	10.00	
License Commissioners, recording li- censes,.....	404.00	
City Clerk's official fees,.....	2,607.00	
Sealer's official fees,.....	470.97	
Sundry departmental receipts, refunds, ...	13,647.77	
Sundry departmental receipts, revenue, ...	15,555.74	
Water works, refunds,.....	180.07	
Sale of old buildings,.....	2,492.50	
Return of money advanced for office ex- penses,.....	5,925.00	
Interest on Trust Funds:—		
Gurdon Bill Fund,.....	180.67	
Sherman D. Porter Fund,.....	568.17	
Court Square Extension Fund,.....	2,404.40	
H. M. Hosley Fund,.....	221.31	
C. S. Marsh Fund,.....	10.41	
McKinley Monument Fund,.....	20.61	
William H. Smith Fund,.....	20.50	
Sherman D. Porter Trust Fund, balance of principal,.....	744.17	
Betterments, Long Hill Street,.....	900.00	
		250,101.38
Total receipts,.....		\$5,508,790.88
Temporary loans in anticipation of revenue,...	\$2,300,000.00	
		2,300,000.00
		\$7,808,790.88

REVENUE CASH PAYMENTS.

Payments as per Treasury Warrants, Nos. 85, 86, 87 in 1917 and Nos. 1 to 88 inclu- sive in 1918,.....	\$7,478,641.48
Cash on hand November 30, 1918,.....	320,903.60
Temporary transfer from Non-Revenue in 1917,.....	9,245.80
	\$7,808,790.88

NON-REVENUE CASH RECEIPTS.

Funded Debt:—

Dwight Street Widening and Extension Loan 20 years serial 4½% coupon or registered bonds dated December 1, 1917, and payable \$40,000 each year 1918 to 1937 inclusive,.....	\$800,000.00
Transfer from Revenue cash, Water Street widening,.....	\$57,265.22
Transfer from Revenue cash, Wayfarers' Lodge,.....	2,625.00
	59,890.22
Total receipts,.....	\$859,890.22
Cash on hand December 1, 1917,.....	453,886.35
Temporary transfer to Revenue cash in 1917, ..	9,245.80
	\$1,323,022.37

NON-REVENUE CASH PAYMENTS.

Payments as per Treasury Warrants, Nos. 85, 86, 87 in 1917 and Nos. 1 to 88 inclu- sive in 1918,.....	\$909,389.48
Cash on hand November 30, 1918,.....	413,632.89
	\$1,323,022.37

TEMPORARY LOANS.

Made in Anticipation of Revenue and Paid within One Year.

1918, Feb. 19—	\$600,000 due November 7, 1918, Salomon Bros. & Hutzler, New York, discounted at,.....	5.5%
June 12—	\$600,000 due November 8, 1918, Blake Bros. & Co., Boston, discounted at,.....	4.57%
Aug. 2—	\$400,000 due November 8, 1918, S. N. Bond & Co., New York, discounted at,.....	4.20%
Sept. 27—	\$100,000 due November 18, 1918, Springfield Safe Deposit & Trust Co., discounted at,.....	4.50%
	\$100,000 due November 18, 1918, Third National Bank, Springfield, discounted at,.....	4.50%
Nov. 30—	\$500,000 due April 16, 1919, Old Colony Trust Company, Boston, discounted at,.....	4.24% plus \$5 prem.
	\$2,300,000	

CITY OF SPRINGFIELD, MASS.

DECEMBER 1, 1918

STATEMENT OF THE BONDED DEBT AND SINKING FUNDS.

NAME AND DESCRIPTION.	Date of Issue.	INTEREST.		PRINCIPAL.		Sinking Funds.
		Rate %	Payable.	When Due.	Outstanding.	
LOANS.						
City Hall Loan, 1907, Reg.	1907	4	J. & J.	{ July 1, 1908 to July 1, 1927. \$9,000 even years, \$3,000 odd years. \$14,000 due Nov. 1, 1914 to Nov. 1, 1923. \$13,000 due Nov. 1, 1924 to Nov. 1, 1933.	\$76,000.00	
Dwight and Water Streets, Railroad Underpass Loan, Cou.	1913	4	May & N.		380,000.00	
Dwight and Water Streets, Railroad Underpass Loan, Act of 1913.	1915	4	May & N.	Nov. 1, 1916 to Nov. 1, 1935, \$10,000 annually.	170,000.00	
Dwight, Willow and Hillman Street Extension.	1915	4	May & N.	Nov. 1, 1916 to Nov. 1, 1925, \$7,000 annually.	49,000.00	
Dwight Street Widening and Extension.	1917	4 1/2	Jne. & D.	Dec. 1, 1918 to Dec. 1, 1937, \$40,000 annually.	800,000.00	
Fire and Police Buildings Loan, Reg.	1910	4	A. & O.	Oct. 1, 1911 to Oct. 1, 1930, \$17,000 annually.	204,000.00	
Fulton Street Loan.	1914	4 1/2	May & N.	\$80,000 each yr., Nov. 1915 to 1934.	380,000.00	
Land and Buildings Loan.	1917	4 1/2	May & N.	Nov. 1, 1918 to Nov. 1, 1937 inc. \$15,000 annually	286,000.00	
Locust Street Extension, Reg.	1911	4	A. & O.	Oct. 1, 1912 to Oct. 1, 1921, \$2,000 annually.	6,000.00	
Municipal Building Loan, Act of 1909, Cou. or Reg.	1909	3 1/2	May & N.	Nov. 1, 1910 to Nov. 1, 1949, \$15,000 annually.	468,000.00	
Municipal Building Loan, Act of 1909, Cou. or Reg.	1910	4	May & N.	Nov. 1, 1911 to Nov. 1, 1960, \$10,000 annually.	320,000.00	
Municipal Building Loan, Act of 1912, Cou. or Reg.	1912	4	May & N.	\$14,000 due Nov. 1, 1913 to 1917 inc. and \$13,000 Nov. 1, 1918 to 1932 inc.	442,000.00	
Municipal Building Loan, Act of 1912.	1914	4	May & N.	\$5,000 each yr., Nov. 1915 to 1934.	180,000.00	
Municipal Loan, Reg.	1913	4 1/2	May & N.	\$2,500 due Nov. 1, 1914 and \$6,000 Nov. 1, 1915 to Nov. 1, 1933; \$5,000, Nov. 1, 1919 to Nov. 1, 1934.	25,000.00	
North Street Extension, Reg.	1909	4	A. & O.	Oct. 1, 1910 to Oct. 1, 1919, \$30,000 annually.	20,000.00	
Public Parks, Reg.	1908	3 1/2	Jne. & D.	June 1, 1909 to Oct. 1, 1919, \$30,000 annually.	20,000.00	\$103,302.94
Public Buildings Loan, Reg.	1911	4	A. & O.	Oct. 1, 1912 to Oct. 1, 1931, \$16,000 annually.	320,000.00	
School Bonds 1900, Cou. or Reg.	1900	3 1/2	Jne. & D.	December 1, 1918.	30,000.00	
" " 1901, Reg.	1901	3 1/2	May & N.	June 1, 1920.	125,000.00	
" " 1902, Reg.	1902	3 1/2	May & N.	October 1, 1921.	125,000.00	
" " 1903, Cou. or Reg.	1903	3 1/2	A. & O.	September 1, 1923.	65,000.00	
" " 1904, Cou. or Reg.	1904	3 1/2	M. & S.	January 1, 1923.	40,000.00	
" " 1905, Cou. or Reg.	1905	3 1/2	J. & J.	January 1, 1925.	242,000.00	
" " 1906, Cou. or Reg.	1906	3 1/2	J. & J.	January 1, 1925.	64,000.00	
" " 1907, Cou. or Reg.	1907	4	May & N.	November 1, 1933.	207,000.00	709,021.95

STATEMENT OF THE BONDED DEBT AND SINKING FUNDS—Continued.

NAME AND DESCRIPTION.	Date of Issue.	INTEREST.		PRINCIPAL.		Sinking Funds.
		Rate %	Payable.	When Due.	Outstanding.	
School Bonds, Commercial High, Cou.	1913	4	May & N.	\$25,000 due Nov. 1, 1914 to Nov. 1, 1933.	375,000.00	
" " Commercial High, Cou.	1914	4½	May & N.	{ \$3,000 Nov. 1, 1915 to 1924. \$7,000 Nov. 1, 1925 to 1934. \$15,000 Nov. 1, 1916 to 1925. \$17,000 Nov. 1, 1926 to 1935.	118,000.00	
" " Commercial High, Cou.	1915	4	May & N.	Oct. 1, 1909 to Oct. 1, 1923. \$5,500 annually.	298,000.00	
" " Kensington Avenue, 1908, Reg.	1908	4	A. & O.	Oct. 1, 1910 to Oct. 1, 1923. \$5,000 annually.	55,000.00	
" " Lincoln, Reg.	1909	4	A. & O.	Oct. 1, 1910 to Oct. 1, 1923. \$5,000 annually.	55,000.00	
" " Buckingham, Reg.	1913	4½	May & N.	\$11,000 due Nov. 1, 1914 to Nov. 1, 1933.	165,000.00	
" " Reg.	1913	4½	May & N.	\$2,000 due Nov. 1, 1914 to 1932, and \$1,500 Nov. 1, 1933.	23,500.00	
" " Bonds, 1916, Reg.	1916	4	M. & N.	Nov. 1, 1917 to Nov. 1, 1936. \$27,000 annually.	498,000.00	
School and Fire Loan.	1914	4½	May & N.	{ \$15,000 Nov. 1915 to 1924. \$12,000 Nov. 1925 to 1934.	198,000.00	
Sewer Bonds, Cou. or Reg.	1900	3	Jne. & D.	June 1, 1890.	142,000.00	
" " 1901, Reg.	1901	3½	Feb. & S.	Sept. 1, 1902 to 1936. \$1,000 annually.	8,000.00	86,733.97
" " Loan, 1904, "	1904	3½	F. & A.	Aug. 1, 1905 to 1924. \$2,000 annually.	12,000.00	
" " 1908, "	1908	4	A. & O.	Oct. 1, 1909 to Oct. 1, 1923. \$2,500 annually.	25,000.00	
" " Reg.	1913	4	May & N.	\$2,000 due Nov. 1, 1914 to Nov. 1, 1933.	40,000.00	
Water Bonds, Coupon	1890	3½	A. & O.	October 1, 1890.	125,000.00	175,573.99
" " "	1895	4	A. & O.	October 1, 1923.	150,000.00	
" " Little River, Cou. or Reg.	1907	4	J. & J.	Jan. 1, 1910 to Jan. 1, 1934. \$10,000 annually.	180,000.00	
" " Little River, Cou. or Reg.	1908	4	J. & J.	Jan. 1, 1911 to Jan. 1, 1937. \$10,000 annually.	190,000.00	
" " Little River, Cou. or Reg.	1909	3½	J. & J.	Jan. 1, 1912 to Jan. 1, 1933. \$40,000 annually.	800,000.00	
" " Little River, Cou. or Reg.	1910	3½	J. & J.	Jan. 1, 1913 to Jan. 1, 1933. \$14,000 annually.	284,000.00	
" " Little River, Cou. or Reg.	1913	4½	May & N.	\$10,000 due Nov. 1, 1914 to Nov. 1, 1933.	200,000.00	
" " Little River, Cou. or Reg.	1916	3½	M. & N.	Nov. 1, 1917 to Nov. 1, 1936. \$5,000 annually.	90,000.00	
Totals					\$9,028,500.00	\$1,049,633.95

STATEMENT OF BONDED DEBT AND SINKING FUNDS, 1918.

SHOWING DEBT AND SINKING FUNDS AT BEGINNING AND CLOSE OF FISCAL YEAR, AND ALL TRANSACTIONS DURING THAT PERIOD.

	Total Debt.	DIVISIONS OF TOTAL INDEBTEDNESS.			Total Net Debt.	Net Debt Exclusive of Water Debt.	Net Debt Within Limit.	Net Water Debt.	SINKING FUNDS.	
		Debt Within Limit.	Debt Outside Limit.	Water Debt.					General Sinking Fund	Water Sinking Fund
December 1, 1917.....	\$8,682,200.00	\$4,588,200.00	\$1,976,000.00	\$2,118,000.00	\$7,667,243.80	\$5,692,980.79	\$3,714,980.79	\$1,944,263.01	\$321,219.21	\$153,796.99
Bonds paid in 1918.....	406,700.00	247,700.00	69,000.00	88,000.00	.....	.....	.....	.....	.....	.....
Bonds issued in 1918.....	800,000.00	.....	800,000.00	.....	.....	.....	.....	.....	.....	.....
Appropriations for General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	43,000.00	.....
Surplus in Water Dept. 1917, available for Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Earnings in General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16,406.78
Earnings in Water Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	23,839.65	.....
Interest on Total and Net City Debt.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,436.22
Increase of Debt Outside Limit.....	394,300.00	.....	.....	.....	299,617.35	.....	.....	.....	.....	.....
Decrease in Total Net Water Debt.....	.....	.....	781,000.00	.....	.....	.....	.....	.....	.....	.....
Decrease Net Debt Within Limit.....	.....	.....	.....	.....	.....	.....	.....	111,843.00	.....	.....
Increase of Net Debt Exclusive of Water Debt.....	.....	.....	.....	.....	.....	.....	319,539.65	.....	.....	.....
Bonds paid from General Sinking Fund.....	.....	.....	.....	.....	.....	411,460.35	.....	.....	.....	.....
November 30, 1918.....	\$9,092,500.00	\$4,990,500.00	\$2,707,000.00	\$3,029,000.00	\$7,956,861.15	\$6,104,441.14	\$3,897,441.14	\$1,862,420.01	\$368,066.86	\$176,579.99

Outstanding Bonds secured by Sinking Funds, \$1,510,000.00.
 Outstanding Serial Bonds.....7,516,500.00.
 Total City Debt.....\$9,026,500.00.

**PURPOSES FOR WHICH OUTSTANDING BONDED DEBT WAS
CREATED.**

Water Works (exempt),.....	\$2,029,000.00
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Schoolhouses:—

Technical High, ... \$450,000.00

High School of Commerce,... 789,000.00

Other Schools,.....1,784,500.00

-\$3,023,500.00

Dwight and Water streets railroad under- passes (exempt),.....	500,000.00
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Dwight-Willow and Hillman street extensions,	49,000.00
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Dwight street widening and extension (ex- empt),.....	800,000.00
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Emery street storehouse (addition),.....	22,800.00
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Fire department buildings,.....	92,610.00
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Fire and Police headquarters,.....	204,000.00
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Fulton street widening,.....	320,000.00
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Health department hospital,.....	11,700.00
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Locust street extension, ...	6,000.00
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Laundry and heating plant, almshouse, ...	19,790.00
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Municipal heating plant, ...	50,700.00
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Municipal Group buildings (exempt),..... 1,407,000.00

Municipal Group, land,.....	76,000.00
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North street extension, ...	20,000.00
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Parks and buildings.....	148,400.00
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Sewers.....	227,000.00
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Wayfarers' Lodge,.....	19,000.00
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Debt exclusive of water debt,..... 6,997,500.00

Total debt,.....\$9,026,500.00

The above bonded debt is issued at the following rates of interests:—

\$267,000 at 3 per cent. per annum.

2,555,000 at $3\frac{1}{2}$ per cent. per annum.

4,064,000 at 4 per cent. per annum.

419,500 at $4\frac{1}{4}$ per cent. per annum.

1,721,000 at 4½ per cent. per annum.

Total, \$9,026,500 at an average interest rate of 3.935 per cent. per annum.

AMOUNT OF DEBT CITY CAN INCUR WITHIN STATUTORY LIMIT.

2½ per cent. of \$197,940,000, average valuation for three preceding years,.....	\$4,948,500.00
Bonded debt other than water debt,.....	\$6,997,500.00
Less debt exempted by special acts of the legislature,.....	2,707,000.00
	<u>\$4,290,500.00</u>
Less general sinking funds,.....	893,059.00
	<u>3,397,441.00</u>
Debt city can incur in 1919,.....	\$1,551,059.00

The funded debt maturing in 1919 totals \$428,000. Of this amount \$89,000 is Water Debt, which will be paid by receipts of the Water Department, and \$339,000 serial bonds for sundry purposes, that will have to be appropriated for and paid from the tax levy.

The sinking funds will require an appropriation of \$33,700.

The following table compiled from previous reports, compares the appropriations, funded water debt, funded debt other than water, sinking funds, tax rate, and the assessors' valuation of real and personal property from the year 1890 to 1918 inclusive:—

Year.	Appropriations.	Water Debt.	Other Debt.	Sinking Funds.	Tax Rate.	Assessors' Valuation, Real and Personal.
1890	\$507,450	\$1,325,000	\$124,000		\$12.40	\$44,493,633
1891	574,425	1,325,000	214,000	\$22,734	12.50	48,329,634
1892	609,715	1,325,000	275,000	45,259	13.00	50,780,987
1893	664,050	1,675,000	263,000	75,202	12.80	55,239,919
1894	664,000	1,650,000	280,000	112,207	12.00	56,449,425
1895	732,300	1,625,000	319,500	192,297	12.20	59,033,141
1896	801,100	1,600,000	339,000	254,340	12.80	61,416,091
1897	872,300	1,575,000	783,500	357,471	13.00	64,898,379
1898	909,650	1,550,000	997,000	411,855	13.80	65,699,713
1899	978,175	1,525,000	968,800	506,654	13.60	69,869,847
1900	1,030,000	1,500,000	1,227,100	595,282	13.80	72,358,481
1901	1,075,500	1,475,000	1,379,900	711,033	14.00	74,338,927
1902	1,130,650	1,450,000	1,362,700	794,876	14.50	74,838,065
1903	1,170,000	875,000	1,480,500	296,461	14.60	77,207,898
1904	1,230,000	835,000	1,573,300	397,141	14.60	78,868,058
1905	1,270,000	595,000	1,809,100	384,424	15.40	80,904,476
1906	1,310,000	555,000	1,987,900	435,448	15.00	86,505,181
1907	1,360,000	785,000	2,059,700	504,805	15.00	92,378,624
1908	1,510,450	1,015,000	2,377,500	591,028	15.50	97,098,308
1909	1,614,800	2,095,000	3,230,300	714,592	14.80	107,875,780
1910	1,830,420	2,463,000	3,882,100	842,991	15.80	118,457,151
1911	2,039,381	2,443,000	4,107,900	968,067	16.50	127,249,343
1912	3,016,543	2,383,000	4,503,700	1,085,186	15.50	151,384,317
1913	3,400,279	2,359,000	5,626,500	1,017,128	15.80	169,743,933
1914	3,555,308	2,275,000	6,422,800	1,148,471	16.50	178,296,823
1915	3,807,803	2,191,000	6,759,600	1,246,389	18.20	188,941,408
1916	4,178,348	2,207,000	7,015,400	1,368,608	17.80	197,915,182
1917	4,318,797	2,118,000	6,514,200	974,956	17.80	195,145,782
1918	4,508,123	2,029,000	6,977,500	1,069,638	18.50	201,276,832

Beginning with the year 1917 the total of Assessors' valuation was reduced by a portion of personal property being valued and taxed by the State.

Respectfully submitted,

ELIPHALET T. TIFFT,

City Treasurer.

I hereby certify that I have examined, in detail, the foregoing abstracts from the accounts of the City Treasurer; that the receipts from various sources, as stated, are correct; that all expenditures are supported by warrants regularly approved by the proper officials, and that the condition of various accounts—including cash on hand and in banks—on November 30, 1918, has been verified by comparison with the records of this office.

WM. G. MCINTYRE,

City Auditor.

SPRINGFIELD, MASS., December 26, 1918.

CITY ORDINANCES FOR 1918.

CITY OF SPRINGFIELD.

ORDINANCES OF 1918

CHAPTER I.
AN ORDINANCE

PLACING PUBLIC SHADE TREES UNDER THE CARE OF THE PARK
COMMISSIONERS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The board of park commissioners are hereby charged with the care of all shade trees within the limits of the highways in the city and are hereby designated to have charge of such shade trees under the provisions of chapter one hundred and forty-five of the general acts of the legislature of nineteen hundred and fifteen.

SECTION 2. Section two of chapter eighteen of the ordinances of nineteen hundred and twelve being "An Ordinance Establishing a Department of Streets and Engineering in the City of Springfield," enacted January 4, 1913, in so far as it relates to the committee on forestry; section three of said ordinance in so far as it relates to forestry or the forestry department; section seven of said ordinance in so far as it relates to trees; and section fifteen of said ordinance in so far as it relates to the superintendent of streets and engineering or division superintendents performing duties imposed by any ordinance on the city forester, are hereby repealed.

SECTION 3. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

SECTION 4. This ordinance shall take effect March 1, 1918.

Approved, February 4, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER II.
AN ORDINANCE

AMENDING AND ADDING TO CHAPTER TWENTY-NINE OF THE REVISED
ORDINANCES RELATING TO THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section thirty-six of chapter twenty-nine of the revised

ordinances is hereby renumbered section forty-two and amended by changing the said section so that it shall read as follows:—

SECTION 42. Whoever violates any of the provisions of sections twenty-four, twenty-five, thirty-four and thirty-five of this chapter shall be punished by a fine of not exceeding twenty dollars.

SECTION 2. Six new sections shall be added to said chapter twenty-nine numbered respectively thirty-six to forty-one both inclusive, as follows:—

SECTION 36. Before the first day of January, 1919, the said board of commissioners shall divide the officers and members of the fire department into two bodies or platoons.

SECTION 37. The hours of duty of one platoon shall be from eight o'clock in the forenoon to six o'clock in the afternoon and it shall be designated the day force; the hours of duty of the other platoon shall be from six o'clock in the afternoon to eight o'clock in the forenoon and it shall be designated the night force; provided that on every fourth day, for the purpose of alternating the periods of duty of the two platoons, the periods of duty herein specified may be lengthened, but only one platoon shall be on duty at any one time except as otherwise herein provided.

SECTION 38. In the event of the occurrence of a fire and the sounding of more than one alarm for such fire the chief of the fire department or the officer lawfully exercising his powers shall have authority to call into service all or any of the members of the platoon not on duty and to retain in service all or any of the members of either or both platoons so long as the circumstances may in his judgment justify.

SECTION 39. The members of the platoon that shall be on duty in the night shall drill at such times and places during the day between eight o'clock in the forenoon and six o'clock in the afternoon as they shall be ordered so to do by the chief of the fire department or the officer lawfully exercising his powers, provided that no member shall be so required to drill more than five hours in any one day.

SECTION 40. All examinations of buildings under the provisions of section fourteen of this chapter shall be made by members of the night force between the hours of eight o'clock in the forenoon and six o'clock in the afternoon, but no member shall be required to devote more than five hours to making such examinations in any one calendar month.

SECTION 41. Every officer and member of the department shall cause to be installed at his home means of communication by telephone

which shall be satisfactory to the chief of the fire department or the officer lawfully exercising his powers.

Approved, April 1, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER III.
AN ORDINANCE

ESTABLISHING THE OFFICE AND FIXING THE DUTIES OF DEPUTY CITY AUDITOR.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. There is hereby established in the city of Springfield the office of deputy city auditor.

SECTION 2. A deputy city auditor shall be appointed by the city auditor subject to the approval of the mayor and confirmation by the city council. Before entering upon the duties of his office he shall be sworn to the faithful discharge thereof. He shall be removable by the city council at its pleasure and unless so removed shall hold office for the term for which the city auditor appointing him was appointed and until his successor is chosen and qualified.

SECTION 3. The deputy city auditor shall perform such duties as may be assigned to him from time to time by the city auditor. If by reason of illness, absence or other cause the city auditor be temporarily unable to perform the duties of his office, the deputy city auditor shall perform the same until such disability ceases and if a vacancy occur in the office of city auditor the deputy city auditor shall perform the duties of said office until such vacancy be filled.

SECTION 4. Section three of chapter twelve of the revised ordinances and all other ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, April 22, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER IV.

AN ORDINANCE

ACCEPTING CHAPTER 116 OF THE SPECIAL ACTS OF 1918 OF THE LEGISLATURE OF THIS COMMONWEALTH, ENTITLED "AN ACT TO PLACE THE BUILDING COMMISSIONER OF SPRINGFIELD UNDER THE CIVIL SERVICE LAWS."

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Chapter 116 of the Special Acts of 1918 of the Legislature of this Commonwealth, entitled "An act to place the Building Commissioner of the City of Springfield under the Civil Service Laws," is hereby accepted, the said Act being as follows:—

SECTION 1. The Building Commissioner of the City of Springfield shall hereafter be subject to and shall have the benefit of the Civil Service Laws and the rules and regulations made thereunder; but the present holder of the office shall not be required to pass any examination.

SECTION 2. This act shall take effect upon its acceptance by the City Council of the said City with the approval of the Mayor.

Approved, June 17, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER V.

AN ORDINANCE

REPEALING CERTAIN ORDINANCES.

Be it ordained by the City Council of the City of Springfield, as follows:—

CHAPTER 8 of the Ordinances of the year 1907, being an ordinance "Relating to a Sealer and Deputy Sealer of Weights and Measures and Inspector of Coal" which was approved July 16, 1907, and Chapter 13 of the Ordinances of the year 1909, being an ordinance "Relating to the Deputy Sealer of Weights and Measures and Fixing the Compensation of the Sealer of Weights and Measures" which was approved August 3, 1909, are hereby repealed.

Approved, June 17, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VI.
AN ORDINANCE

RELATING TO THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 1 of Chapter 16 of the ordinances of 1907, approved December 24, 1907, is hereby amended so as to read as follows:—

SECTION 1. The Fire Department of the City of Springfield shall consist of one Chief, one Deputy Chief, four District Chiefs, one Superintendent of the Fire Alarm Telegraph, one Assistant Superintendent of the Fire Alarm Telegraph, one Superintendent of Repairs, one Bookkeeper, one Clerk and not exceeding two hundred and sixty-three permanently employed members, all of whom shall be appointed by the Board of Fire Commissioners, and as many fire engines, chemical engines, hose and hook and ladder companies, automobile squads, and other apparatus as the protection of the City, from time to time, in the opinion of the City Council, shall require.

All appointments under this section, except the Chief, Deputy Chief and District Chiefs, shall be made from nominations to said Board of Fire Commissioners by the Board of Engineers. If such nominations are rejected by the Board of Fire Commissioners, new nominations shall be made by the Board of Engineers. If, at the expiration of ten days, after nominations have been called for, the Board of Engineers fail to make such nominations the Board of Fire Commissioners may appoint without such nominations being made.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, June 17, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VII.
AN ORDINANCE

ESTABLISHING THE OFFICE OF SOLDIERS' RELIEF COMMISSIONER.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. There is hereby created the office of Soldiers' Relief Commissioner.

SECTION 2. As soon as may be after the passage of this ordinance the City Council in joint session shall elect a Soldiers' Relief Commissioner,

who shall, unless sooner removed, hold his office for a term ending the thirtieth day of November in the year 1919. In the year 1919 and annually thereafter within sixty days after the first day of September the City Council in joint session shall elect such a Commissioner, who shall, unless sooner removed, hold his office for a term of one year from the thirtieth day of November following his election or until his successor shall be elected and shall enter upon the performance of his duties. A vacancy in said office may be filled for an unexpired term at any time in the manner above provided for an original election. The encumbent of said office may be removed at the will of the City Council.

SECTION 3. Said Commissioner shall receive such salary as the City Council may from time to time provide.

SECTION 4. The Committee on City Property shall provide said Commissioner with an office.

SECTION 5. Said Commissioner may employ a clerk to assist him in the performance of his duties.

SECTION 6. Said Commissioner shall perform such duties relative to the disbursement of State and Military Aid and the furnishing of Soldiers' Relief as the Mayor and Aldermen may from time to time authorize or direct; and shall perform the duties of burial agent if and when appointed by the Mayor. He shall also perform such other duties as the City Council or the Board of Aldermen may from time to time direct.

Approved, July 8, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VIII.

AN ORDINANCE

PROVIDING ADDITIONAL TEMPORARY COMPENSATION FOR CERTAIN MEMBERS OF THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. From and after the first day of September in the current year the following named members of the fire department shall until the first day of September in the year nineteen hundred and nineteen receive additional temporary compensation at the rates of the respective sums below set forth.

Chief	\$200 a year
Deputy Chief	200 a year
District Chiefs	200 a year, each

Superintendent of Fire Alarm	\$200 a year
Superintendent of Repairs	200 a year
Captains	200 a year, each
Lieutenants	200 a year, each
Engineers	200 a year, each
Firemen, Grade A	200 a year, each
Firemen, Grade B	200 a year, each
Firemen, Grade C	200 a year, each

Approved, August 5, 1918.

Attest: E. A. NEWELL, *City Clerk*.

CHAPTER IX. AN ORDINANCE

ESTABLISHING THE SALARIES OF THE SEALER OF WEIGHTS AND MEASURES,
THE FIRST DEPUTY SEALER OF WEIGHTS AND MEASURES, THE
SECOND DEPUTY SEALER OF WEIGHTS AND MEASURES, THE
SOLDIERS' RELIEF COMMISSIONER, THE SUPERINTEN-
DENT OF THE STREETS DIVISION OF THE DE-
PARTMENT OF STREETS AND ENGINEER-
ING, AND THE CITY AUDITOR.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the sealer of weights and measures, the first deputy sealer of weights and measures, the second deputy sealer of weights and measures, the soldiers' relief commissioner, the superintendent of the streets division of the department of streets and engineering and the city auditor are hereby established at the rates of the respective sums below set forth, all to date from August 1, 1918, except the salary of the sealer of weights and measures which shall date from July 17, 1918, and the salary of the soldiers' relief commissioner which shall date from July 16, 1918.

Sealer of weights and measures, eighteen hundred dollars (\$1800) a year.

First deputy sealer of weights and measures, thirteen hundred dollars (\$1300) a year.

Second deputy sealer of weights and measures, twelve hundred dollars (\$1200) a year.

Soldiers' relief commissioner, eighteen hundred dollars (\$1800) a year.

Superintendent of the streets division of the department of streets and engineering, three thousand dollars (\$3000) a year.

City auditor, thirty-two hundred dollars (\$3200) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, August 5, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER X.

AN ORDINANCE

PROVIDING ADDITIONAL TEMPORARY COMPENSATION FOR CERTAIN MEMBERS OF THE POLICE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. From and after the first day of September in the current year the following named members of the police department shall until the first day of September in the year nineteen hundred and nineteen receive additional temporary compensation at the rates of the respective sums below set forth.

Chief	\$200 a year.
Deputy Chief	200 a year
Captain of Detectives	200 a year
Captains	200 a year, each
Detective Lieutenants	200 a year, each
Lieutenants	200 a year, each
Detective Sergeants	200 a year, each
Sergeants	200 a year, each
Patrolmen, Grade A	200 a year, each
Patrolmen, Grade B	200 a year, each
Patrolmen, Grade C	200 a year, each
Patrolmen, Reserve and Special	50 cents a day, each

Approved, August 5, 1918.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XI.
AN ORDINANCE

PROVIDING ADDITIONAL TEMPORARY COMPENSATION FOR CERTAIN
OFFICIALS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. From and after the first day of August in the current year the following named officers shall until the first day of August in the year nineteen hundred and nineteen receive additional temporary compensation at the rates of the respective sums below set forth.

Assessors	\$200 a year, each
City Auditor	200 a year
Building Commissioner	200 a year
Inspector of Plumbing	100 a year
Assistant Inspector of Plumbing	200 a year
Agent of the Overseers of the Poor	200 a year
City Physician	200 a year
City Collector	200 a year
City Clerk	200 a year
Agent of the Board of Health	200 a year
Health Physician	100 a year
Assistant City Solicitor	200 a year
City Treasurer	200 a year
City Prosecuting Attorney	200 a year

Approved, August 5, 1918.

Attest: E. A. NEWELL, *City Clerk.*

TAXES.

TAXES.

TAXES—1905—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	\$98,960 00
Amount of County tax committed,	74,982 77
Amount of Bank tax committed,	89,209 52
Amount of City tax committed,	1,109,812 49
Amount of Military Armory tax committed,	6,728 88
Amount of Grade Crossing tax committed,	1,177 05
Amount of Excise tax Springfield Street	
Railway committed,	12,182 26— \$1,342,452 47

Received of Collector as follows:—

State tax,	\$98,960 00
County tax,	74,982 77
Bank tax,	89,209 52
On account of City tax,	1,096,511 34
Military Armory tax,	6,728 88
Grade Crossing tax,	1,177 05
Excise tax Springfield Street Railway,	12,182 26
Abatements,	12,801 15— \$1,342,452 47

Rate—Fifteen dollars and forty cents on one thousand dollars. Poll tax, two dollars.

Attest,

ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1906—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$86,590 00
Amount of County tax committed,	89,968 08
Amount of Bank tax committed,	26,876 53
Amount carried forward,	\$203,434 61

Amount brought forward,	\$208,484	61	
Amount of City tax committed,	1,157,088	64	
Amount of Military Armory tax committed,	6,611	06	
Amount of Grade Crossing tax committed,	1,111	66	
Amount of Excise tax Springfield Street Railway committed,	12,856	06	
Amount of Special Census tax committed,	820	78—	\$1,881,872 81

Received of Collector as follows: —

State tax,	\$86,590	00	
County tax,	89,968	08	
Bank tax,	26,876	53	
On account of City tax,	1,145,794	34	
Military Armory tax,	6,611	06	
Grade Crossing tax,	1,111	66	
Excise tax Springfield Street Railway,	12,856	06	
Special Census,	820	78	
Abatements,	11,244	30—	\$1,881,872 81

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1907—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$103,280	00	
Amount of County tax committed,	92,566	11	
Amount of Bank tax committed,	26,073	69	
Amount of City tax committed,	1,230,789	52	
Amount of Military Armory tax committed,	6,430	43	
Amount of Excise tax Springfield Street Railway committed,	13,646	75—	\$1,472,786 50

Received of Collector as follows: —

State tax,	\$103,280	00	
County tax,	92,566	11	
Bank tax,	26,073	69	
On account of City tax,	1,220,963	31	
Military Armory tax,	6,430	43	
Excise tax Springfield Street Railway,	13,646	75	
Abatements,	9,826	21—	\$1,472,786 25

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1908—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$142,010 00	
Amount of County tax committed,	92,465 60	
Amount of Bank tax committed,	26,346 46	
Amount of City tax committed,	1,826,257 02	
Amount of Military Armory tax committed,	922 50	
Amount of Excise tax Springfield Street Railway committed,	13,608 62	
Amount for abating nuisance Kibbe Hollow tax committed,	785 76—	\$1,602,395 96

Received of Collector as follows:—

State tax,	\$142,010 00	
County tax,	92,465 60	
Bank tax,	26,346 46	
On account of City tax,	1,813,145 20	
Military Armory tax,	922 50	
Excise tax Springfield Street Railway,	13,608 62	
Abatements,	13,463 23	
On account of abating nuisance Kibbe Hollow,	434 35—	\$1,602,395 96
Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.		

Attest,

ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1909—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$116,190 00	
Amount of County tax committed,	92,465 60	
Amount of Bank tax committed,	25,127 59	
Amount of City tax committed,	1,442,009 18	
Amount of Excise tax Springfield Street Railway committed,	14,214 26	
Amount for abating nuisance Kibbe Hollow tax committed,	785 76—	\$1,690,792 89

Received of Collector as follows:—

State tax,	\$116,190 00
County tax,	92,465 60
Bank tax,	25,127 59
On account of City tax,	1,426,950 22
Amount carried forward,	\$1,660,783 91

Amount brought forward,	\$1,660,733 41	
Excise tax Springfield Street Railway,	14,214 26	
Abatements,	15,349 67	
Abatement on account of abating nuisance		
Kibbe Hollow,	495 05—	\$1,690,792 39
Rate—Fourteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.		
Attest,	ELIPHALET T. TIFFT, <i>City Treasurer.</i>	

TAXES—1910—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$158,345 00	
Amount of County tax committed,	95,413 62	
Amount of Bank tax committed,	29,595 64	
Amount of City tax committed,	1,665,106 13	
Amount of Excise tax Springfield Street		
Railway committed,	14,671 37—	\$1,983,131 76
Received of Collector as follows :—		
State tax,	\$158,345 00	
County tax,	95,413 62	
Bank tax,	29,595 64	
On account of City tax,	1,665,597 37	
Excise tax Springfield Street Railway,	14,671 37	
Abatements,	19,508 76—	\$1,983,131 76
Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.		
Attest,	ELIPHALET T. TIFFT, <i>City Treasurer.</i>	

TAXES—1911—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$158,345 00	
Amount of County tax committed,	107,858 85	
Amount of Bank tax committed,	33,125 83	
Amount of City tax committed,	1,907,444 59	
Amount of Excise tax Springfield Street		
Railway committed,	13,441 88—	\$2,220,216 15

Received of Collector as follows :—

State tax,	\$158,345 00
County tax,	107,858 85
Bank tax,	38,125 83
On account of City tax,	1,892,321 38
Excise tax, Springfield Street Railway,	13,441 88
Abatements,	15,123 21— \$2,220,216 15

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest,

ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1912—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$182,027 18
	\$179,937 50
State System of accounts,	2,089 68

Amount of County tax committed,	105,266 09
Amount of Bank tax committed,	28,134 82
Amount of City tax committed,	2,130,292 54
Amount of Excise tax, Springfield Street Railway, committed,	14,584 19— \$2,460,304 82

Received of Collector as follows :—

State tax,	\$182,027 18
County tax,	105,266 09
Bank tax,	28,134 82
On account of City tax,	2,103,191 75
Excise tax, Springfield Street Railway,	14,584 19
Abatements,	27,100 79— \$2,460,304 82

Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest,

WILLIAM C. MARSH, *City Auditor.*

TAXES—1913—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$255,920 00
Amount of County tax committed,	116,422 70
Amount of Bank tax committed,	25,108 66
Amount of City tax committed,	2,383,606 98
Amount of Excise tax, Springfield Street Railway committed,	16,446 00— \$2,797,504 34

Received of Collector as follows :—

State tax,	\$255,920 00
County tax,	116,422 70
Bank tax,	25,108 66
Excise tax, Springfield Street Railway,	16,446 00
On account of City tax,	2,354,763 81
Abatements,	28,843 17— \$2,797,504 34

Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest,

WM. G. MCINTYRE, *City Auditor.*

TAXES—1914—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$279,912 50
Amount of County tax committed,	115,373 85
Amount of Bank tax committed,	26,846 80
Amount of Excise tax, Springfield Street Railway, committed,	16,673 85
Amount of City tax committed,	2,659,381 98— \$3,098,188 98

Received of Collector as follows :—

State tax,	\$279,912 50
County tax,	115,373 85
Bank tax,	26,846 80
Excise tax, Springfield Street Railway,	16,673 85
On account of City tax,	2,624,423 81
Abatements,	34,958 17— \$3,098,188 98

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest,

WM. G. MCINTYRE, *City Auditor.*

TAXES—1915—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$311,902 50
Amount of County tax committed,	123,240 23
Amount of Bank tax committed,	23,673 83
Amount of Excise tax, Springfield Street Railway, committed,	16,494 16
Amount of City tax committed,	3,093,478 76— \$3,568,789 48

Received of Collector as follows:—

State tax,	\$311,902 50	
County tax,	123,240 23	
Bank tax,	23,673 83	
Excise tax, Springfield Street Railway,	16,494 16	
On account of City tax,	3,057,450 22	
Abatements,	36,028 54—	\$3,568,789 48

Rate—Eighteen dollars and twenty cents on one thousand dollars. Poll tax, two dollars.

Attest,

WM. G. McINTYRE, *City Auditor.*

TAXES—1916—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	\$296,240 00	
Amount of County tax committed,	150,706 77	
Amount of Bank tax committed,	18,131 04	
Amount of Excise tax, Springfield Street Railway, committed,	17,999 27	
Amount of City tax committed,	3,214,155 45—	\$3,697,232 53

Received of Collector as follows:—

State tax,	\$296,240 00	
County tax,	150,706 77	
Bank tax,	18,131 04	
Excise tax, Springfield Street Railway,	17,999 27	
On account of City tax,	3,131,515 59	
Abatements,	82,605 77	
Uncollected taxes,	34 09—	\$3,697,232 53

Rate—Seventeen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest,

WM. G. McINTYRE, *City Auditor.*

TAXES—1917—CHARLES A. FRAZER, COLLECTOR.

Committed to City Collector:—

For State tax,	\$409,750 00	
“ County tax,	176,227 17	
“ Bank tax,	17,321 89	
“ Excise tax, Springfield Street Railway Company,	19,426 53	
“ City tax,	2,984,841 32—	\$3,607,566 91

Accounted for as follows :—

Received by City Collector,	\$3,532,000 32	
Abated by Board of Assessors,	31,824 74	
Amount Uncollected,	43,741 85—	\$3,607,566 91

Rate—Seventeen dollars and eighty cents on one thousand dollars.

Poll tax, two dollars.

Attest,

WM. G. MCINTYRE, *City Auditor.*

TAXES—1918—CHARLES A. FRAZER, COLLECTOR.

Committed to City Collector :—

For State tax,	\$409,750 00	
“ County tax,	183,886 40	
“ Bank tax,	18,864 47	
“ Excise tax, Springfield Street Railway Company,	20,185 84	
“ City tax,	3,214,246 83—	\$3,846,433 54

Accounted for as follows :—

Received by City Collector,	\$2,898,870 30	
Abated by Board of Assessors,	12,976 06	
Amount Uncollected,	985,087 18—	\$3,846,433 54

Rate—Eighteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest,

WM. G. MCINTYRE, *City Auditor.*

ASSESSORS' VALUATION OF PROPERTY.

1852—Total valuation, ...		\$5,180,210 00
1853—Total valuation, ...		5,509,660 00
1854—Total valuation, ...		7,762,250 00
1855—Total valuation, ...		8,409,870 00
1856—Total valuation, ...		8,284,060 00
1857—Total valuation, ...		8,558,720 00
1858—Real estate, ...	\$5,702,040 00	
Personal estate, ...	2,679,100 00	8,381,140 00
1859—Real estate, ...	5,794,590 00	
Personal estate, ...	2,845,640 00	8,640,230 00
1860—Real estate, ...	5,962,480 00	
Personal estate, ...	2,955,800 00	8,918,280 00
1861—Real estate, ...	6,417,660 00	
Personal estate, ...	3,067,920 00	9,485,580 00
1862—Real estate, ...	6,719,500 00	
Personal estate, ...	3,039,390 00	9,758,890 00
1863—Real estate, ...	7,211,320 00	
Personal estate, ...	3,744,790 00	10,956,110 00
1864—Real estate, ...	8,536,490 00	
Personal estate, ...	2,871,430 00	11,407,920 00
1865—Real estate, ...	9,007,850 00	
Personal estate, ...	3,784,910 00	12,792,760 00
1866—Real estate, ...	10,241,540 00	
Personal estate, ...	4,755,480 00	14,997,020 00
1867—Real estate, ...	12,758,420 00	
Personal estate, ...	5,110,810 00	17,869,230 00
1868—Real estate, ...	15,125,520 00	
Personal estate, ...	5,322,640 00	20,448,160 00
1869—Real estate, ...	17,665,610 00	
Personal estate, ...	5,901,570 00	23,567,180 00
1870—Real estate, ...	18,443,990 00	
Personal estate, ...	6,070,070 00	24,514,060 00
1871—Real estate, ...	20,962,100 00	
Personal estate, ...	6,589,870 00	27,551,970 00

1872—Real estate, ...	\$26,098,920 00	
Personal estate, ...	7,512,230 00	\$33,611,150 00
1873—Real estate, ...	29,380,520 00	
Personal estate, ...	8,060,300 00	37,440,820 00
1874—Real estate, ...	30,489,850 00	
Personal estate, ...	7,846,928 00	38,336,778 00
1875—Real estate, ...	31,125,660 00	
Personal estate, ...	8,398,912 40	39,524,572 40
1876—Real estate, ...	27,647,560 00	
Personal estate, ...	7,461,896 86	35,109,456 86
1877—Real estate, ...	23,737,000 00	
Personal estate, ...	6,955,776 66	30,692,776 66
1878—Real estate, ...	22,746,330 00	
Personal estate, ...	6,637,845 72	29,384,175 72
1879—Real estate, ...	22,211,230 00	
Personal estate, ...	7,230,094 00	29,441,324 00
1880—Real estate, ...	22,856,020 00	
Personal estate, ...	8,292,655 00	31,148,675 00
1881—Real estate, ...	23,795,920 00	
Personal estate, ...	8,935,850 00	32,731,770 00
1882—Real estate, ...	25,084,420 00	
Personal estate, ...	9,198,258 00	34,282,678 00
1883—Real estate, ...	25,876,800 00	
Personal estate, ...	9,260,459 00	34,937,259 00
1884—Real estate, ...	26,301,150 00	
Personal estate, ...	8,792,666 00	35,093,816 00
1885—Real estate, ...	26,969,800 00	
Personal estate, ...	8,865,928 00	35,835,728 00
1886—Real estate, ...	27,638,760 00	
Personal estate, ...	9,143,442 00	36,782,202 00
1887—Real estate, ...	28,566,280 00	
Personal estate, ...	9,416,384 17	37,982,664 17
1888—Real estate, ...	30,323,140 00	
Personal estate, ...	9,540,115 14	39,863,255 14
1889—Real estate, ...	32,000,680 00	
Personal estate, ...	10,072,895 00	42,073,575 00
1890—Real estate, ...	33,795,860 00	
Personal estate, ...	10,697,773 00	44,493,633 00
1891—Real estate, ...	37,219,490 00	
Personal estate, ...	11,110,144 00	48,329,634 00

1892—Real estate, ...	\$39,444,580 00	
Personal estate, ...	11,336,407 00	\$50,780,987 00
1893—Real estate, ...	42,975,820 00	
Personal estate, ...	12,264,099 00	55,239,919 00
1894—Real estate, ...	44,083,900 00	
Personal estate, ...	12,365,525 00	56,449,425 00
1895—Real estate, ...	46,063,460 00	
Personal estate, ...	12,969,681 00	59,033,141 00
1896—Real estate, ...	48,344,280 00	
Personal estate, ...	13,071,811 00	61,416,091 00
1897—Real estate, ...	50,344,460 00	
Personal estate, ...	14,553,919 00	64,898,379 00
1898—Real estate, ...	52,022,570 00	
Personal estate, ...	13,677,143 00	65,699,713 00
1899—Real estate, ...	53,400,770 00	
Personal estate, ...	16,469,077 00	69,869,847 00
1900—Real estate, ...	55,676,320 00	
Personal estate, ...	16,682,161 00	72,358,481 00
1901—Real estate, ...	57,394,710 00	
Personal estate, ...	16,944,217 00	74,338,927 00
1902—Real estate, ...	58,411,160 00	
Personal estate, ...	16,424,905 40	74,836,065 40
1903—Real estate, ...	60,787,130 00	
Personal estate, ...	16,420,768 80	77,207,898 80
1904—Real estate, ...	62,145,950 00	
Personal estate, ...	16,722,107 80	78,868,057 80
1905—Real estate, ...	63,273,330 00	
Personal estate, ...	17,631,146 80	80,904,476 80
1906—Real estate, ...	68,239,990 00	
Personal estate, ...	18,265,191 00	86,505,181 00
1907—Real estate, ...	73,319,860 00	
Personal estate, ...	19,058,764 00	92,378,624 00
1908—Real estate, ...	76,965,520 00	
Personal estate, ...	20,132,788 00	97,098,308 00
1909—Real estate, ...	85,403,490 00	
Personal estate, ...	22,472,290 00	107,875,780 00
1910—Real estate, ...	94,984,660 00	
Personal estate, ...	24,097,118 00	119,081,778 00

1911—Real estate,.....	\$102,393,230 00	
Personal estate,.....	25,659,804 00	\$128,053,034 00
1912—Real estate,.....	123,602,570 00	
Personal estate,.....	25,927,780 00	149,530,350 00
1913—Real estate,.....	139,348,180 00	
Personal estate,.....	31,326,534 00	170,674,714 00
1914—Real estate,.....	147,180,360 00	
Personal estate,.....	32,948,691 00	180,129,051 00
1915—Real estate,.....	155,949,860 00	
Personal estate,.....	33,594,430 00	189,544,290 00
1916—Real estate,.....	162,945,320 00	
Personal estate,.....	39,004,692 00	201,950,012 00
1917—Real estate,.....	171,248,770 00	
Personal estate,.....	25,185,190 00	196,433,960 00
1918—Real estate,.....	175,128,240 00	
Personal estate,.....	26,771,589 00	201,899,829 00

CITY OFFICERS.

CITY OFFICERS

CITY OFFICERS FOR 1852.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Eliphalet Trask; Ward Three, E. D. Beach; Ward Four, George Dwight; Ward Five, Albert Morgan; Ward Six, Charles G. Rice; Ward Seven, Oliver B. Bannon; Ward Eight, F. A. Barton.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris; Ward One, J. B. M. Stebbins, Eleaser Ripley, John V. Jones; Ward Two, W. C. Sturtevant, Francis Bates, Henry Fuller, Jr.; Ward Three, Charles Merriam, Willis Phelps, Cicero Simons; Ward Four, Henry Morris, Alexander H. Avery, Benjamin F. Warner; Ward Five, William Hitchcock, Hiram Q. Sanderson, Nathaniel Cate; Ward Six, Henry Adams; Ward Seven, Esra Kimberly; Ward Eight, Rodney Holt.

CLERK—Alanson Hawley.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1853.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, John B. Stebbins; Ward Two, Eliphalet Trask; Ward Three, Willis Phelps; Ward Four, Henry Vose; Ward Five, Titus Amadon; Ward Six, Drayton Perkins; Ward Seven, Joseph N. Sollace; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris (resigned May 16). William Stowe; Ward One, Daniel Hitchcock, William Pynchon, Addison Day; Ward Two, Joseph C. Pynchon, Orrin Baker, E. W. Bond; Ward Three, Lombard Dale, T. M. Walker, William Stowe; Ward Four, Henry Morris, Alexander H. Avery, Edmund Palmer; Ward Five, Nathaniel Cate, William Dickinson, Daniel Collins; Ward Six, Henry Adams; Ward Seven, Esra Kimberly; Ward Eight, William S. Barker.

CLERK—Alanson Hawley (resigned March 7), Samuel O. Gay.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1854.

MAYOR—PHILOS B. TYLER.

ALDERMEN—Ward One, Wilson Eddy; Ward Two, Eliphalet Trask; Ward Three, Elkanah Barton; Ward Four, William L. Washburn; Ward Five, Edward F. Moseley; Ward Six, Roderick Lombard; Ward Seven, Joseph Lombard; Ward Eight, Rodney Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Samuel S. Day; Ward One, Asa Clark, Samuel S. Day, Thomas W. Wason; Ward Two, George H. Roberts, Henry A. Robinson, Roderick Ashley; Ward Three, Philo F. Wilcox, Lombard Dale, Frederick H. Harris; Ward Four, Daniel L. Harris, Tilly Haynes, Joseph B. Hopkins; Ward Five, Daniel Collins, G. W. Harrison, A. H. Clark; Ward Six, Edwin S. Hall; Ward Seven, Harris B. Johnson; Ward Eight, Horace Pease.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1855.

MAYOR—ELIPHALET TRASK.

ALDERMEN—Ward One, James M. Blanchard; Ward Two, W. C. Sturtevant; Ward Three, David Smith; Ward Four, Daniel Reynolds; Ward Five, William E. Montague; Ward Six, Henry Adams; Ward Seven, James P. Chapman; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John M. Stebbins; Ward One, E. B. Haskell, John M. Stebbins, Stephen Morse; Ward Two, O. W. Wilcox, John Hooker, 3d, D. H. Brigham; Ward Three, Francis S. Graves, Rufus Elmer, E. W. Dickinson; Ward Four, Abel B. Howe, John W. Hunt, Jeremiah R. Cadwell; Ward Five, Nathaniel Howard, S. S. Holmes, E. F. Moseley; Ward Six, J. G. Capron; Ward Seven, Luther S. Lewis; Ward Eight, Samuel Webber.

CLERK—Thomas Chubbuck.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1856.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Edmund Freeman; Ward Four, Stephen C. Bemis; Ward Five, Thomas H. Allen; Ward Six, Henry Alexander, Jr.; Ward Seven, Henry Reynolds; Ward Eight, Samuel Webber.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, James Kirkman; Ward One, Charles O. Russell, Chauncey L. Covell, Hervey Hills; Ward Two, O. W. Wilcox, Henry A. Chapin, Dexter H. Brigham; Ward Three, Dr. Nathan Adams, Charles L. Shaw, George Whitney; Ward Four, James Kirkham, George Walker, John W. Hunt; Ward Five, Otis A. Seamans, E. F. Moseley, Nelson Tyler; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, Milton Foster.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1857.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, George Walker; Ward One, Charles O. Russell, Chauncey L. Covell, James Stebbins; Ward Two, Erastus Hayes, Lyman King, Francis B. Bacon; Ward Three, Marvin Lincoln, Henry Avery, John R. Hixon; Ward Four, George Walker, Samuel Leonard, William Birnie; Ward Five, Charles Woodman, Luther Upton, George A. Otis; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, George A. Cooley.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1858.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr. (resigned), E. A. Fuller.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John R. Hixon; Ward One, Wilson Eddy, William Pynchon, William L. Smith; Ward Two, Randolph E. Ladd, Ambrose N. Merrick, Charles B. Trask; Ward Three, John R. Hixon, Henry A. Chapin, Gurdon Bill; Ward Four, Samuel Leonard, John W. Hunt, R. G. Shumway; Ward Five, Charles Woodman, George Swetland, John Brooks; Ward Six, Elbridge Barton; Ward Seven, Joseph Wheelock, Jr.; Ward Eight, Erastus King.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1859.

MAYOR—WILLIAM B. CALHOUN.

ALDERMEN—Ward One, Chauncey L. Covell; Ward Two, Roger S. Moore; Ward Three, Edmund Freeman; Ward Four, Daniel L. Harris; Ward Five, William Hitchcock; Ward Six, J. G. Capron; Ward Seven, Horace Smith; Ward Eight, George W. Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, A. N. Merrick (resigned in May), Samuel Leonard; Ward One, Joshua M. Harrington, Justin M. Cooley, John V. Jones; Ward Two, George H. Roberts, Lewis H. Taylor, Gurdon C. Judson; Ward Three, A. N. Merrick, Daniel Gay, Hosea C. Lombard; Ward Four, Samuel Leonard, Alfred Rowe, Reuben T. Safford; Ward Five, Theodore Bishop, Walter Maynard, Walter North; Ward Six, Isaac D. Gibbons; Ward Seven, Ransley Hall; Ward Eight, Warren L. Shaw.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1860.

MAYOR—DANIEL L. HARRIS.

ALDERMEN—Ward One, Edmund B. Haskell; Ward Two, Erastus Hayes; Ward Three, Franklin Chamberlain; Ward Four, John W. Hunt; Ward Five, William Hitchcock; Ward Six, John G. Capron; Ward Seven, William Foster; Ward Eight, George W. Holt.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Joshua M. Harrington, H. S. Noyes, J. H. Demond; Ward Two, Lewis H. Taylor, George R. Townsley, Charles A. Winchester; Ward Three, William L. Wilcox, John Hamilton, Clark W. Bryan; Ward Four, N. A. Leonard, William Birnie, Alfred Rowe; Ward Five, William Higley, A. F. Strong, Charles Woodman; Ward Six, Robert Crossett; Ward Seven, Orrin Lombard; Ward Eight, Andrew J. Plumer.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

CITY OFFICERS FOR 1861.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, Ephraim W. Bond; Ward Three, H. N. Case; Ward Four, Nathaniel Howard; Ward Five, Charles Woodman; Ward Six, Amos Call; Ward Seven, William Smith; Ward Eight, A. J. Plumer.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, H. J. Chapin, J. M. Cooley, J. H. Demond; Ward Two, Lewis H. Taylor, D. H. Brigham, F. B. Bacon; Ward Three, William L. Wilcox, John Hamilton, James M. Skiff; Ward Four, N. A. Leonard, John W. Bliss, Alfred Rowe; Ward Five, William Higley, Otis A. Seamans, A. W. Allen; Ward Six, Aaron C. Barton; Ward Seven, Henry Reynolds; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

CITY OFFICERS FOR 1862.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, E. W. Bond; Ward Three, H. N. Case; Ward Four, T. W. Wason; Ward Five, Horace Kibbe; Ward Six, Horace Smith; Ward Seven, William Smith; Ward Eight, H. S. Evans.

CLERK—S. B. Spooner, Jr.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Horace J. Chapin, L. O. Hanson, L. J. Powers; Ward Two, Sylvester Day, Tim Henry, Eli H. Patch; Ward Three, James M. Skiff, J. E. Taylor, A. F. Jennings; Ward Four, N. A. Leonard, Alfred Rowe, T. M. Walker; Ward Five, P. V. B. Havens, George K. Jacobs, George K. Charter; Ward Six, Aaron C. Barton; Ward Seven, Ezekiel Keith; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Samuel B. Spooner (resigned September 30), A. T. Folsom.

CITY OFFICERS FOR 1863.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Justin M. Cooley; Ward Two, William Patton; Ward Three, William K. Baker; Ward Four, Daniel L. Harris; Ward Five, William Bodurtha; Ward Six, Horace Smith; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, N. W. Talcott, George S. Haskell, Luther Clark; Ward Two, O. H. Greenleaf, G. R. Townsley, John West; Ward Three, Aaron G. Lord, James M. Skiff, Francis S. Graves; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Cheney Bigelow, George K. Charter (resigned), Charles Phelps, Orlando Chapin (resigned), William Collins; Ward Six, J. G. Chase; Ward Seven, C. P. L. Warner; Ward Eight, Hiram Warner.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1864.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Norman W. Talcott; Ward Two, William Patton; Ward Three, Albert D. Briggs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Harvey E. Moseley.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Henry S. Hyde, John Mulligan, Charles H. Allen; Ward Two, O. H. Greenleaf, G. R. Townsley, J. F. Tannatt; Ward Three, Charles A. Winchester, W. H. Smith, A. N. Merrick; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Charles Phelps, William Collins, S. W. Porter; Ward Six, L. H. Taylor; Ward Seven, Peter Valentine; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1865.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, Henry S. Hyde; Ward Two, George R. Townsley; Ward Three, Otis Childs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, John Mulligan, W. H. Allis, H. S. Noyes; Ward Two, Gideon Wells, John Olmsted, J. F. Tannatt; Ward Three, William H. Smith, J. F. Tapley, H. N. Tinkham; Ward Four, N. A. Leonard, Henry S. Lee, S. J. Hall; Ward Five, Charles Phelps, S. W. Porter, J. Q. A. Sexton; Ward Six, Gustavus D. Tapley; Ward Seven, Rawson Hathaway; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1866.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, William Pynchon; Ward Two, D. H. Brigham; Ward Three, Tim Henry; Ward Four, F. H. Harris; Ward Five, G. W. Harrison; Ward Six, W. H. Wilkinson; Ward Seven, John G. Taylor (died), Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. H. Demond, Warren Emerson, J. C. McIntosh; Ward Two, Gideon Wells, H. M. Morehouse, George Dwight, Jr.; Ward Three, H. N. Tinkham, William H. Smith, Joseph H. Damon; Ward Four, D. B. Wesson, William L. Smith, W. S. Marsh; Ward Five, Charles Phelps, S. W. Porter, Charles Chapman; Ward Six, Gustavus D. Tapley; Ward Seven, John M. Meggett; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1867.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, F. H. Harris; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. C. McIntosh, Warren Emerson, J. H. Demond; Ward Two, H. M. Morehouse, C. S. Hurlbut, L. A. Tift; Ward Three, Charles Marsh, H. K. W. Dickinson, P. S. Bailey; Ward Four, W. L. Smith, W. S. Marsh, L. J. Powers; Ward Five, Charles Chapman, A. H. Clark, J. S. Brown; Ward Six, Charles A. Call; Ward Seven, E. W. Clark; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1868.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, W. S. Marsh; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, E. W. Clark; Ward Eight, Milo Chapin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Warren Emerson, Josiah Bumstead, Roswell Lee; Ward Two, O. H. Greenleaf, Charles R. Ladd, Lewis A. Tift; Ward Three, E. H. Patch, A. J. McIntosh, William H. Smith; Ward Four, Henry S. Lee, E. G. Norton, M. A. Clyde; Ward Five, Cyrus E. Buckland, Alden Warner, William R. Purple; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1869.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, J. M. Cooley; Ward Two, George Dwight; Ward Three, William H. Smith; Ward Four, W. S. Marsh; Ward Five, Joseph M. Hall; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, Charles J. Goodwin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, George M. Atwater, Josiah Bumstead, John Olmsted; Ward Two, Charles R. Ladd, O. H. Greenleaf, C. C. Smith; Ward Three, A. J. McIntosh, E. H. Patch, J. H. Appleton; Ward Four, Henry S. Lee, E. G. Norton, L. J. Powers; Ward Five, Alden Warner, E. B. Haskell, W. P. Taylor; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1870.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, J. A. Rumrill; Ward Two, Eliphalet Trask; Ward Three, Dr. John Hooker; Ward Four, Willis Phelps; Ward Five, Joseph M. Hall; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Foster.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, A. D. Day, C. B. Holbrook; Ward Two, George Dwight, Jr., James S. Bourke, David Legro; Ward Three, James E. McIntire, George W. Tapley, George S. Lewis; Ward Four, Henry S. Lee, Gurdon Bill, S. R. Phillips; Ward Five, Charles Phelps, William B. Miller, T. B. Wilson; Ward Six, George E. Howard; Ward Seven, John A. Hall; Ward Eight, Alfred S. Packard.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1871.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, Josiah Bumstead; Ward Two, Charles R. Ladd; Ward Three, Lawson Sibley; Ward Four, James M. Thompson; Ward Five, Richard F. Hawkins; Ward Six, Isaac P. Dickinson; Ward Seven, John A. Hall; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, P. W. Brewster, F. J. Donahue; Ward Two, Milton Bradley, Tilly Haynes, R. Warren; Ward Three, B. C. English, S. B. Spooner, N. C. Newell; Ward Four, Henry S. Lee, Henry M. Phillips, E. A. Perkins; Ward Five, T. B. Wilson, J. C. Perry, E. B. Maynard; Ward Six, George E. Howard; Ward Seven, J. W. Lull; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1872.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward Two, Charles R. Ladd; Ward Three, William H. Smith; Ward Four, Emerson Wight; Ward Five, Joseph M. Hall, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, William H. Pinney; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, F. J. Donahue, L. H. Powers, N. W. Fisk; Ward Two, O. H. Greenleaf, George W. Ray, Henry F. Trask; Ward Three, N. C. Newell, Samuel Palmer, George M. Smith; Ward Four, E. A. Perkins, H. M. Phillips, V. N. Taylor; Ward Five, M. P. Knowlton, E. B. Maynard, P. H. M. Brooks; Ward Six, E. A. Newell; Ward Seven, J. W. Lull; Ward Eight, W. L. Converse.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1873.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward One, H. S. Hyde; Ward Two, George W. Ray; Ward Three, E. H. Patch; Ward Four, Emerson Wight; Ward Five, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, L. A. Tift; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, Florence J. Donahue, Noyes W. Fisk, Albert Holt; Ward Two, O. H. Greenleaf, H. F. Trask, S. C. Warriner; Ward Three, Joseph K. Newell, Charles M. Lee, Charles M. King; Ward Four, Varnum N. Taylor, E. A. Perkins, H. M. Phillips; Ward Five, M. P. Knowlton, J. D. McKnight, W. G. Chamberlain; Ward Six, E. A. Newell; Ward Seven, B. F. Farrar; Ward Eight, John Warriner.

CLERK—John A. Hall.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1874.

MAYOR—JOHN M. STEBBINS.

ALDERMEN—Ward One, Albert Holt; Ward Two, Hugh Donnelly; Ward Three, A. J. McIntosh; Ward Four, L. J. Powers; Ward Five, Albert W. Allen; Ward Six, I. P. Dickinson; Ward Seven, J. W. Lull; Ward Eight, Henry C. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, T. B. Wilson; Ward One, D. J. Curtis, Horace Wheeler, James A. Byrnes; Ward Two, L. B. Lillie, M. L. Tourtellotte, P. J. Ryan; Ward Three, B. S. Haskins, Charles A. King, August Sheppard; Ward Four, J. H. Appleton, Homer Foot, Jr., D. J. Marsh; Ward Five, W. G. Chamberlain, T. B. Wilson, Benjamin Hannis; Ward Six, Daniel Schoonmaker; Ward Seven, E. W. Ladd; Ward Eight, John Warriner.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1875.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, Hinsdale Smith; Ward Two, D. H. Brigham; Ward Three, F. H. Fuller; Ward Four, L. J. Powers; Ward Five, W. G. Chamberlain; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Horace Wheeler, James A. Byrnes, N. W. Fisk; Ward Two, S. E. Seymour, H. F. Trask, M. L. Tourtellotte; Ward Three, J. K. Newell, A. J. Plumer, J. K. Winter; Ward Four, Henry S. Lee, D. L. Harris, J. S. Carr; Ward Five, B. S. Haskins, Benjamin Hannis, E. S. Stacy; Ward Six, Daniel Schoonmaker; Ward Seven, E. P. Cook; Ward Eight, D. P. Woolson.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1876.**MAYOR—EMERSON WIGHT.**

ALDERMEN—Ward One, N. W. Talcott; Ward Two, George Dwight; Ward Three, J. K. Newell; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley; Ward Six, D. L. Swan; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, J. M. Cooley, J. J. Moore; Ward Two, Milton Bradley, H. F. Trask, M. L. Tourtellotte; Ward Three, H. N. Tinkham, J. F. Tapley, Elijah Nichols; Ward Four, W. S. Shurtleff, D. L. Harris, J. S. Carr; Ward Five, H. W. Phelps, Edwin McElwain, E. S. Stacy; Ward Six, R. R. McGregor; Ward Seven, Larkin Newell; Ward Eight, Samuel F. Smith.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1877.**MAYOR—EMERSON WIGHT.**

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley (resigned), Benj. Hannis; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, N. W. Fisk, L. H. Powers; Ward Two, H. F. Trask, M. L. Tourtellotte, George E. Frink; Ward Three, H. N. Tinkham, Elijah Nichols, George B. Smith; Ward Four, Daniel L. Harris, William S. Shurtleff, J. K. Newell; Ward Five, Edwin McElwain, John A. Hall, A. J. Wright; Ward Six, H. C. Puffer; Ward Seven, E. W. Ladd; Ward Eight, Milo Chapin.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1878.**MAYOR—EMERSON WIGHT.**

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, John A. Hall; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, A. J. Wright; Ward One, John Mulligan, L. H. Powers, E. Belding; Ward Two, Dr. H. G. Stickney, Dr. A. R. Rice, E. M. Bartlett; Ward Three, Elijah Nichols, George B. Smith, J. R. Smith; Ward Four, W. S. Shurtleff, J. K. Newell, H. A. Gould; Ward Five, A. J. Wright, N. W. Howard, S. L. Hodgdon; Ward Six, George R. Dickinson; Ward Seven, Edwin W. Ladd; Ward Eight, F. M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1879.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, J. R. Smith; Ward One, John Muligan, E. Belding, J. W. Baldwin; Ward Two, E. H. Phelps, Horace Jacobs, F. A. Judd; Ward Three, J. R. Smith, Elijah Nichols, Frank E. Winter; Ward Four, Henry A. Gould, George B. Holbrook, C. J. Sanderson; Ward Five, N. W. Howard, S. L. Hodgdon, M. J. Chamberlain; Ward Six, E. M. Lombard; Ward Seven, Charles Taylor; Ward Eight, F. M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1880.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, S. C. Warriner; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Elijah Belding; Ward One, E. Belding, Ethan C. Robinson, Harlan P. Stone; Ward Two, Fred A. Judd, E. H. Young, E. M. Bartlett; Ward Three, Elijah Nichols, Frank E. Winter, Emory Meekins; Ward Four, George B. Holbrook, Charles J. Sanderson, William H. Haile; Ward Five, Nathaniel W. Howard, Sewall L. Hodgdon, James D. Gill; Ward Six, Edward M. Lombard; Ward Seven, Charles Taylor; Ward Eight, Frank M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1881.

MAYOR—WILLIAM H. HAILE.

ALDERMEN—Ward One, Elijah Belding; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles J. Sanderson; Ward One, Harlan P. Stone, Hoyt E. Howard, Henry J. Beebe; Ward Two, Fred A. Judd, Edwin M. Bartlett, John Lobsitz; Ward Three, George P. Stebbins, Jacob C. Lutz, Simpson Clark; Ward Four, Charles J. Sanderson, William B. Walker, Edmund P. Kendrick; Ward Five, James D. Gill, Henry Dana, James F. Brierly; Ward Six, Albert E. Foth; Ward Seven, William C. Bemis; Ward Eight, George Foster.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1882.

MAYOR—EDWIN W. LADD.

ALDERMEN—Ward One, Henry D. Carroll; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, Davenport L. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Edmund P. Kendrick; Ward One, Harlan P. Stone, Henry J. Beebe, Ethan C. Robinson; Ward Two, Fred A. Judd, Frank M. Bugbee, Frank E. Carpenter; Ward Three, Simpson Clark, Jacob C. Luts, James D. Parsons; Ward Four, Edmund P. Kendrick, James C. Alden, Edward C. Rogers; Ward Five, Henry Dana, Charles E. Dodge, Charles Fuller; Ward Six, George McGregory; Ward Seven, John S. Sanderson; Ward Eight, Edward D. Chapman.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1883.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, Harlan P. Stone; Ward Two, Fred A. Judd; Ward Four, James Kirkham; Ward Five, James D. Gill; Ward Six, Charles A. Call; Ward Seven, George Nye; Ward Eight, John S. Sanderson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, E. P. Kendrick; Ward One, Charles McKay, J. F. Callanan, John L. Knight; Ward Two, Frank E. Carpenter, Frank M. Bugbee, James A. Bill, Jr.; Ward Three, Jacob C. Luts, Simpson Clark, W. F. Cook; Ward Four, Edmund P. Kendrick, Edward C. Rogers, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, Whiteman T. Steere; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1884.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Luts; Ward Four, George W. Tapley; Ward Five, Henry M. Brewster; Ward Six, Charles A. Call; Ward Seven, George Nye, John S. Sanderson; Ward Eight, Davenport L. Fuller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Edward C. Rogers; Ward One, Henry L. Whitcomb, John L. Knight, Patrick C. O'Connor; Ward Two, Hosea C. Lombard, James A. Bill, Jr., James N. Dodge; Ward Three, Simpson Clark, George F. Clark, James S. Adams; Ward Four, Edward C. Rogers, Charles L. Long, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, J. H. Hendrick; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1885.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, John L. Knight; Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, Daniel P. Crocker; Ward Five, Charles Taylor; Ward Six, Charles A. Call; Ward Seven, John S. Sanderson; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, James F. Bidwell, Henry M. Castle; Ward Two, James A. Bill, Jr., Hosea C. Lombard, Edwin F. Lyford; Ward Three, Edgar C. Whittemore, Richard D. Whitney, John H. Clune; Ward Four, Henry H. Bowman, Charles L. Long, Alfred N. Mayo; Ward Five, George H. Wells, Joel H. Hendrick, James Kimball; Ward Six, Oscar S. Greenleaf; Ward Seven, Richard W. Pinney; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1886.

MAYOR—EDWIN D. METCALF.

ALDERMEN—President, Andrew Y. Beach; Ward One, James F. Bidwell; Ward Two, Andrew Y. Beach; Ward Three, George B. Holbrook; Ward Four, George W. Tapley; Ward Five, Joel H. Hendrick; Ward Six, Walter H. Wesson; Ward Seven, Richard W. Pinney; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, Charles A. Fisk, R. Hale Smith; Ward Two, James A. Bill, Jr., Edwin F. Lyford, Samuel J. Whyte; Ward Three, John H. Clune, Claudius C. Margerum, William F. Callender; Ward Four, Charles L. Long, Henry H. Bowman, Alfred N. Mayo; Ward Five, Thomas S. Stewart, Edward S. Bradford, Marcus M. Kendall; Ward Six, William L. Dickinson; Ward Seven, George W. Hall; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1887.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, James F. Bidwell; Ward One, James F. Bidwell; Ward Two, Frank M. Bugbee; Ward Three, William F. Callender; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry H. Bowman; Ward One, Frederick H. Stebbins, John Dollan, Frank C. Leonard; Ward Two, Frank S. Crane, James A. Bill, Jr., Newrie D. Winter; Ward Three, Claudius C. Margerum, James E. Dunleavy, Howard N. Newell; Ward Four, Henry H. Bowman, William W. More, Charles E. Brown; Ward Five, Edward S. Bradford, Marcus M. Kendall, William C. Newell; Ward Six, Edward J. Flannery; Ward Seven, Landomer E. Pease; Ward Eight, James H. Morley.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1888.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, Frank M. Bugbee; Ward One, John C. McIntosh; Ward Two, Frank M. Bugbee; Ward Three, Lawson Sibley; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Newrie D. Winter; Ward One, Frederick H. Stebbins, Frank C. Leonard, George W. Turner; Ward Two, Newrie D. Winter, Charles C. Parkhurst, Edward F. Tower; Ward Three, James E. Dunleavy, Frederick S. Newman, Leonard Schadt; Ward Four, William W. More, Charles E. Brown, George Leonard; Ward Five, Edward S. Bradford, Marcus M. Kendall, James W. Anderson; Ward Six, Edward J. Flannery; Ward Seven, Charles E. Ladd; Ward Eight, E. A. Grise.

CLERK—Tom Fitzgibbon.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tift.

CITY OFFICERS FOR 1889.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John C. McIntosh; Ward One, John C. McIntosh; Ward Two, Charles C. Parkhurst; Ward Three, Herbert C. Puffer; Ward Four, John A. Murphy; Ward Five, John McFethries; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orson Moulton.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, George W. Turner, Leroy Z. Cutler, William F. Ray; Ward Two, Waldo R. Forrester, Francke W. Dickinson, Dr. George E. Foster; Ward Three, Leonard Schadt, Jacob G. Lutz, John P. Casman; Ward Four, William W. More, George Leonard, Charles Van Vlack; Ward Five, Milan W. Bull, Ruel R. Nickerson, Thomas H. Benton; Ward Six, Cornelius W. Phillips; Ward Seven, Charles E. Ladd; Ward Eight, Loren W. King.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tift.

CITY OFFICERS FOR 1890.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, Henry S. Dickinson; Ward One, George W. Turner; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edmund P. Kendrick; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, Leroy Z. Cutler, William F. Ray, Louis C. Hyde; Ward Two, Francke W. Dickinson, George D. Fisk, John B. King; Ward Three, John P. Casman, Arthur A. Couch, George J. Seuss; Ward Four, George Leonard, Charles Van Vlack, Frederick H. Gillett; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, Cornelius W. Phillips; Ward Seven, Benjamin C. Harvey; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tift.

CITY OFFICERS FOR 1891.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John A. Murphy; Ward One, Louis C. Hyde; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edward H. Lathrop; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Francke W. Dickinson; Ward One, Henry E. Marsh, John McDonald, Charles H. Mulligan; Ward Two, Francke W. Dickinson, John B. King, Dwight O. Gilmore; Ward Three, George J. Seuss, Charles W. Turk, Jeremiah F. Mahoney; Ward Four, Charles Van Vlack, W. F. Adams, James D. Norton; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tift.

CITY OFFICERS FOR 1892.

MAYOR—LAWSON SIBLEY.

ALDERMEN—President, Frederick Harris; Ward One, Louis C. Hyde; Ward Two, Frank E. Carpenter; Ward Three, Claudius C. Margerum; Ward Four, Charles M. Mather; Ward Five, Samuel D. Sherwood; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Henry W. Sexton; Ward Two, Edwin A. Carter, Dwight O. Gilmore, James J. Sullivan; Ward Three, George J. Seuss, Jeremiah F. Mahoney, John Sharrocks; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William M. Gray, William A. Harris, Stillman L. Tuttle; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Henry A. Braman.

CLERK—Andrew O. McGarrett, (resigned)—Wm. E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tift.

CITY OFFICERS FOR 1893.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, George Nye; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Claudius C. Margerum; Ward Four, Henry H. Bowman; Ward Five, George Nye; Ward Six, Nathan D. Bill; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Winford N. Caldwell; Ward Two, Walter G. Morse, Charles W. Perkins, George B. Rathbun; Ward Three, Harry P. Elsey, George F. Sessions, Charles Workheiser; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William A. Harris, Edwin S. Field, Frederick B. Miller; Ward Six, Eugene Young; Ward Seven, William H. Gage; Ward Eight, Merrill E. Streeter.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—E. T. Tift.

CITY OFFICERS FOR 1894.**MAYOR—EDMUND P. KENDRICK.****ALDERMEN**—President, Henry H. Bowman; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Gustave Remkus; Ward Four, Henry H. Bowman; Ward Five, George A. Russell; Ward Six, Claudius C. Margerum; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.**CLERK—E. A. Newell.****COMMON COUNCILMEN**—President, George F. Sessions; Ward One, William C. Hayes, Charles L. Burr, George F. Fuller; Ward Two, Maurice P. Cavanaugh, Charles W. Perkins, Frank H. Elwell; Ward Three, Harry P. Elsey, George F. Sessions, Robert A. Grant; Ward Four, Howard A. Gibbs, Robert A. Knight, Paul R. Hawkins; Ward Five, Edwin S. Field, Frederick B. Miller, Fred C. Wright; Ward Six, Edward C. Hamilton; Ward Seven, William S. Bemis; Ward Eight, Philip C. Sullivan.**CLERK—William E. Gilbert.****CITY CLERK—E. A. Newell.****CITY TREASURER—E. T. Tift.****CITY OFFICERS FOR 1895.****MAYOR—CHARLES L. LONG.****ALDERMEN**—President, George A. Russell; Ward One, George F. Fuller; Ward Two, Albert E. Foth; Ward Three, Gustave Remkus; Ward Four, Henry L. Gaylord; Ward Five, George A. Russell; Ward Six, Walter P. Goodenough; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.**CLERK—E. A. Newell.****COMMON COUNCILMEN**—President, Robert A. Knight; Ward One, Charles L. Burr, Lewis D. Robinson, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Frank H. Elwell, Charles D. Rathbun; Ward Three, Adin W. Bangs, Robert A. Grant, George W. D. Upton; Ward Four, Howard A. Gibbs, Paul R. Hawkins, Robert A. Knight; Ward Five, Albert P. Casey, Augustus A. Howard, Frederick B. Miller; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Ladd; Ward Eight, John R. Reed.**CLERK—William E. Gilbert.****CITY CLERK—E. A. Newell.****CITY TREASURER—E. T. Tift.****CITY OFFICERS FOR 1896.****MAYOR—NEWRIE D. WINTER.****ALDERMEN**—President, Henry S. Dickinson; Ward One, Charles L. Burr; Ward Two, Dwight O. Gilmore; Ward Three, George J. Seuss; Ward Four, Henry S. Dickinson; Ward Five, Charles H. Parsons; Ward Six, Charles Rogers; Ward Seven, Charles E. Ladd; Ward Eight, Octave A. La Riviere.**CLERK—E. A. Newell.****COMMON COUNCILMEN**—President, Maurice P. Cavanaugh; Ward One, Frank H. Bills, William J. McCann, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Harry C. Collins, Charles T. Winchester; Ward Three, Henry D. Marsh, Frank D. Quilty, George W. D. Upton; Ward Four, Ralph W. Ellis, Zera W. Smith, Fred H. Sturtevant; Ward Five, Frank W. Barker, Augustus A. Howard, Edward R. Lee; Ward Six, Frank D. Kemp; Ward Seven, William W. Bartlett; Ward Eight, Charles O. Churchill.**CLERK—William E. Gilbert.****CITY CLERK—Elijah A. Newell.****CITY TREASURER—E. T. Tift.**

CITY OFFICERS FOR 1897.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Willard F. Tripp; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Frank W. Barker; Ward One, Orville A. Dodge, Lewis D. Robinson; Ward Two, Luke J. Coogan, Henry D. Shaw, Harry J. Vesper; Ward Three, Charles H. Dunham, Frank H. Elwell; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Frank W. Barker, Stanford L. Haynes; Ward Six, Fred A. Barse, Dennis Casey, Jr.; Ward Seven, George A. Bacon, William W. Bartlett; Ward Eight, Charles O. Churchill, Alexander C. Methven, Fordis C. Parker.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1898.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Lewis D. Robinson; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fordis C. Parker; Ward One, Orville A. Dodge, Franklin A. Latimer, Jr.; Ward Two, Luke J. Coogan, Matthew R. Mansfield, William A. Strange; Ward Three, Edward T. Davis, Harry H. Parkhurst; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Fordis C. Parker, Stanford L. Haynes; Ward Six, Fred A. Barse, Samuel M. Jones; Ward Seven, George A. Bacon, Seth J. Buckland; Ward Eight, Albert E. W. Drake, Alexander C. Methven, William F. Mundell.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1899.

MAYOR—DWIGHT O. GILMORE.

ALDERMEN—President, Charles H. Mulligan; Ward One, Franklin A. Latimer, Jr.; Ward Two, Charles H. Mulligan; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Barse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp, Edwin B. Woodin; Ward Two, Luke J. Coogan, Patrick J. McCarty, Patrick J. Mitchell; Ward Three, Gottlieb Baer, George W. D. Upton; Ward Four, Lincoln C. Haynes, William W. Tapley; Ward Five, Theodore F. Dwight, Charles A. Wright; Ward Six, Frederick S. Ladd, George Smith; Ward Seven, Albert G. Bennett, Jr., Seth J. Buckland; Ward Eight, Albert E. W. Drake, William F. Mundell, Woodward E. Murkland.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1900.**MAYOR—WILLIAM P. HAYES.****ALDERMEN**—President, Edwin A. Blodgett; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.**CLERK**—E. A. Newell.**COMMON COUNCILMEN**—President, Albert G. Bennett, Jr.; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, John M. Sullivan; Ward Three, George W. D. Upton, Napoleon L. Byron; Ward Four, William W. Tapley, F. Winthrop Edwards; Ward Five, Theodore F. Dwight, George Nye, Jr.; Ward Six, George Smith, Eugene M. Tinkham; Ward Seven, Albert G. Bennett, Jr., William A. Newton; Ward Eight, William F. Mundell, Oliver E. Hines, Everett E. Stone.**CLERK**—William E. Gilbert (resigned), H. S. Gilbert.**CITY CLERK**—Elijah A. Newell.**CITY TREASURER**—Eliphalet T. Tift.

CITY OFFICERS FOR 1901.**MAYOR—WILLIAM P. HAYES.****ALDERMEN**—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Henry D. Marsh; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Frank D. Kemp; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Edward J. Murphy.**CLERK**—E. A. Newell.**COMMON COUNCILMEN**—President, Everett E. Stone; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, Patrick J. Delaney; Ward Three, George H. McClean, William W. Warren; Ward Four, F. Winthrop Edwards, Henry P. Norris; Ward Five, Calvin S. Whitcomb, George Nye, Jr.; Ward Six, John J. Hamilton, Eugene M. Tinkham; Ward Seven, Henry G. Chapin, William A. Newton; Ward Eight, Oliver E. Hines, Everett E. Stone, William T. Webster.**CLERK**—H. S. Gilbert.**CITY CLERK**—Elijah A. Newell.**CITY TREASURER**—Eliphalet T. Tift.

CITY OFFICERS FOR 1902.**MAYOR—RALPH W. ELLIS.****ALDERMEN**—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Napoleon L. Byron; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Paul R. Hawkins; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Everett E. Stone.**CLERK**—Elijah A. Newell.**COMMON COUNCILMEN**—President, William E. Sanderson; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Sylvester P. Callanan, Patrick J. Delaney, James E. Dunn; Ward Three, Charles F. Bogardus, George H. McClean; Ward Four, Henry P. Norris, Alfred F. H. Pillsbury; Ward Five, George Nye, Jr., Calvin S. Whitcomb; Ward Six, Joseph C. Allen, John J. Hamilton; Ward Seven, Henry G. Chapin, Edward O. Doten; Ward Eight, Henry S. Keyes, Charles S. Potter, William T. Webster.**CLERK**—H. S. Gilbert.**CITY CLERK**—Elijah A. Newell.**CITY TREASURER**—Eliphalet T. Tift.

CITY OFFICERS FOR 1903.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Joseph C. Allen; Ward Seven, Oscar S. Greenleaf; Ward Eight, Oliver E. Hines.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Wayland V. James; Ward Two, Patrick J. Delaney, Thomas J. Burke, William H. Grady; Ward Three, George V. Lovely, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Clinton Gowdy, Albert R. Green; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Edward P. Blague.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1904.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Frederick S. Ladd; Ward Seven, Oscar S. Greenleaf; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Henry N. Bowman; Ward Two, Thomas J. Burke, William H. Grady, William F. Houlihan; Ward Three, George H. Hadd, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Albert R. Green, Frank E. Stacy; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Howard O. Buck.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1905.

MAYOR—FRANCKE W. DICKINSON.

ALDERMEN—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Henry P. Norris; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Charles S. Potter; Ward One, Charles Adams, Henry N. Bowman; Ward Two, William F. Houlihan, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouse; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, Henry R. Morrissey; Ward Seven, Fred R. Brown, Edwin G. Remkus; Ward Eight, Charles S. Potter, Howard O. Buck, Ralph Waldo Wight.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1906.

MAYOR—FRANCKE W. DICKINSON.**ALDERMEN**—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Arthur H. Rogers; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, Charles S. Potter.**CLERK**—Elijah A. Newell.**COMMON COUNCILMEN**—President, Ralph Waldo Wight; Ward One, Charles Adams, Henry N. Bowman; Ward Two, John J. Collins, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, George D. Chamberlain, Henry R. Morrissey; Ward Seven, Fred R. Brown, John Lafayette Scott; Ward Eight, William Addison, Ralph Waldo Wight, Howard O. Buck (resigned).**CLERK**—H. S. Gilbert.**CITY CLERK**—Elijah A. Newell.**CITY TREASURER**—Eliphalet T. Tift.

CITY OFFICERS FOR 1907.

MAYOR—WILLIAM E. SANDERSON.**ALDERMEN**—President, Willis A. Ford; Ward One, Henry N. Bowman; Ward Two, Willis A. Ford; Ward Three, Geo. H. Crouss; Ward Four, Arthur H. Rogers; Ward Five, Alfred F. H. Pillsbury; Ward Six, Frederick S. Ladd; Ward Seven, Fred R. Brown; Ward Eight, Charles S. Potter.**CLERK**—Elijah A. Newell.**COMMON COUNCILMEN**—President, Ralph W. Wight; Ward One, Charles Adams, John Henry Curtiss; Ward Two, Geo. C. Connell, Michael J. Scully, John J. Collins; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, Edward P. Butts, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, George D. Chamberlain; Ward Seven, John L. Scott, Edward W. Maynard; Ward Eight, William Addison, Ralph W. Wight, George M. Howe.**CLERK**—H. S. Gilbert.**CITY CLERK**—Elijah A. Newell.**CITY TREASURER**—Eliphalet T. Tift.

CITY OFFICERS FOR 1908.

MAYOR—WILLIAM E. SANDERSON.**ALDERMEN**—President, Alfred F. H. Pillsbury; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Geo. H. Crouss, deceased—Nelson L. Elmer; Ward Four, Arthur H. Rogers; Ward Five, Alfred F. H. Pillsbury; Ward Six, George D. Chamberlain; Ward Seven, Fred R. Brown; Ward Eight, Ralph W. Wight.**CLERK**—Elijah A. Newell.**COMMON COUNCILMEN**—President, Frank E. Stacy; Ward One, Charles Adams, John Henry Curtiss; Ward Two, Michael J. Scully, John J. Collins, George C. Connell; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, Edward P. Butts, John A. Denison; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Frank E. Stacy, Harcourt Wesson Bull; Ward Seven, John L. Scott, Edward W. Maynard; Ward Eight, George M. Howe. Jay W. Nickels, John W. Superneaw.**CLERK**—H. S. Gilbert.**CITY CLERK**—Elijah A. Newell.**CITY TREASURER**—Eliphalet T. Tift.

CITY OFFICERS FOR 1909.

MAYOR—WILLIAM E. SANDERSON.

ALDERMEN—President, Henry N. Bowman; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Nelson L. Elmer; Ward Four, Arthur H. Rogers; Ward Five, William A. Dodge; Ward Six, George D. Chamberlain; Ward Seven, John L. Scott; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, John A. Denison; Ward One, John Henry Curtiss, Joseph G. Merrick; Ward Two, John J. Collins, James A. Sullivan, John J. Walsh; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, John A. Denison, Everett E. Belding; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Frank E. Stacy, Harcourt Weason Bull; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Jay W. Nickels.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1910.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, Henry N. Bowman; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Nelson L. Elmer; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, George D. Chamberlain; Ward Seven, John L. Scott; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, Joseph G. Merrick, Wilfred S. Armitage; Ward Two, James A. Sullivan, John J. Walsh, Jeremiah McCarthy; Ward Three, Albert A. Mathews, George W. Streeter; Ward Four, Everett E. Belding, George Marston Leonard; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Matthew H. Farrell, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Miller J. Meeker.

CLERK—H. S. Gilbert (resigned), George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1911.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, Ralph W. Wight; Ward One, Edward S. Goldthwaite; Ward Two, Henry Lasker; Ward Three, H. Goodman Waters; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, Frank E. Stacy; Ward Seven, Charles B. Hitchcock; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, Wilfred S. Armitage, George S. Cook; Ward Two, John P. Cannon, William H. Grady, Jeremiah McCarthy; Ward Three, George W. Streeter, George W. D. Upton; Ward Four, Everett E. Belding, George Marston Leonard; Ward Five, Charles A. Albee, J. Frank Drake; Ward Six, Matthew H. Farrell, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Miller J. Meeker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1912.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, John A. Denison; Ward One, Edward S. Goldthwaite; Ward Two, Henry Lasker; Ward Three, H. Goodman Waters; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, Frank E. Stacy; Ward Seven, Charles B. Hitchcock; Ward Eight, John G. Maxfield.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, George S. Cook, Charles J. Jefferson; Ward Two, John P. Cannon, William H. Grady, John J. Walsh; Ward Three, George W. Streeter, George W. D. Upton; Ward Four, Robert P. Marsh, George W. Pike; Ward Five, Charles A. Albee, J. Frank Drake; Ward Six, Henry Martens, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Giles Blague, Charles M. Goodwin, George A. Lanciaux.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1913.

MAYOR—JOHN A. DENISON.

ALDERMEN—President, Henry Lasker; Ward One, George S. Cook; Ward Two, Henry Lasker; Ward Three, George H. McClean; Ward Four, Harry G. Webster; Ward Five, Robert N. Ingersoll; Ward Six, Frank E. Stacy; Ward Seven, Julian R. Albee; Ward Eight, John G. Maxfield.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Louis G. Erickson, Charles J. Jefferson; Ward Two, William H. Grady, John H. Morgan, John J. Walsh; Ward Three, Nelson W. Haskell, George W. Streeter; Ward Four, Robert P. Marsh, George W. Pike; Ward Five, Charles A. Albee, Harold A. Wheat; Ward Six, Henry Martens, Thomas F. McGlynn (resigned), Patrick W. Russell; Ward Seven, Albert B. Franklin, Jr., Edward T. Broadhurst; Ward Eight, Giles Blague, George A. Lanciaux, William B. Sleigh.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1914.

MAYOR—JOHN A. DENISON.

ALDERMEN—President, Frank E. Stacy; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, George H. McClean; Ward Four, Harry G. Webster; Ward Five, Robert N. Ingersoll; Ward Six, Frank E. Stacy; Ward Seven, Julian R. Albee; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Louis G. Erickson, Lawrence P. Griffin; Ward Two, William H. Grady, John H. Morgan, John R. Doyle; Ward Three, Nelson W. Haskell, Fred A. Morrill; Ward Four, Robert P. Marsh, Albert D. Shaw; Ward Five, William Foster, Harold A. Wheat; Ward Six, Henry Martens, John J. O'Hare; Ward Seven, Albert B. Franklin, Jr., Edward T. Broadhurst; Ward Eight, Clinton W. Cowles, George A. Lanciaux, William B. Sleigh.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1915.

MAYOR—FRANK E. STACY.

ALDERMEN—President, George S. Cook; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Harry G. Webster; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Albert B. Franklin, Jr.; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Emil J. Erard, Lawrence P. Griffin; Ward Two, William H. Grady, William J. Granfield, John R. Doyle; Ward Three, William L. Fuller, Fred A. Morrill; Ward Four, Robert P. Marsh, Albert D. Shaw; Ward Five, Seth H. Barlow, William Foster; Ward Six, Silvio Martinelli, William C. B. Merriam; Ward Seven, Edward T. Broadhurst, Henry H. Caswell; Ward Eight, Clinton W. Cowles, George A. Lanciaux, Albert B. Sanderson.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1916.

MAYOR—FRANK E. STACY.

ALDERMEN—President, George S. Cook; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Robert P. Marsh; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Albert B. Franklin, Jr.; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Albert D. Shaw; Ward One, Emil J. Erard, Lawrence P. Griffin; Ward Two, William H. Grady, William J. Granfield, John R. Doyle; Ward Three, William L. Fuller, Fred A. Morrill; Ward Four, Christopher G. Simpson, Albert D. Shaw; Ward Five, Seth H. Barlow, William Foster; Ward Six, Silvio Martinelli, Ambrose H. Reynolds; Ward Seven, Alfred H. Chapin, Henry H. Caswell; Ward Eight, Clinton W. Cowles, G. Clarence A. Fuller, Albert B. Sanderson.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1917.

MAYOR—FRANK E. STACY.

ALDERMEN—President, Giles Blague; Ward One, John J. Lester; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Robert P. Marsh; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Henry H. Caswell; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Albert D. Shaw; Ward One, C. Burton Gibbs, Lawrence P. Griffin; Ward Two, William H. Grady, John R. Doyle, John A. Fitzgerald; Ward Three, Fred A. Morrill, Harold P. Small; Ward Four, Albert D. Shaw, James P. Smith; Ward Five, Seth H. Barlow, Christopher G. Simpson; Ward Six, Ambrose H. Reynolds, Melvin D. Southworth; Ward Seven, Alfred H. Chapin, Arthur G. Taylor; Ward Eight, G. Clarence A. Fuller, Arthur Alfred Beth, George H. Decker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

CITY OFFICERS FOR 1918.

MAYOR—FRANK E. STACY.

ALDERMEN—President, Henry H. Caswell; Ward One, John J. Lester; Ward Two, Edwin F. Leonard; Ward Three, Nelson W. Haskell; Ward Four, Charles A. Allbe; Ward Five, James F. Walls; Ward Six, Melvin D. Southworth, resigned, Clifford D. Castle elected; Ward Seven, Henry H. Caswell; Ward Eight, G. Clarence A. Fuller, resigned, Fred A. Eldred elected.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Christopher G. Simpson; Ward One, C. Burton Gibbs, Emile J. Erard; Ward Two, William H. Grady, John R. Doyle, John A. Fitzgerald; Ward Three, Ambrose H. Reynolds, Harold P. Small; Ward Four, Archer R. Simpson, James P. Smith; Ward Five, Seth H. Barlow, Christopher G. Simpson; Ward Six, George L. Fenn, Clifford D. Castle, resigned, Frank M. Kinney elected; Ward Seven, Frederick Kattler, Arthur G. Taylor; Ward Eight, Victor Bengle, Arthur Alfred Beth, George H. Decker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tift.

